ORIGINAL

0000094250

<u>M E M O R A N D U M</u>

N

TO:

Docket Control

FROM:

Ernest G. Johnson

Director

Ser

Utilities Division

DATE:

March 03, 2009

RE:

STAFF REPORT FOR APPALOOSA WATER COMPANY'S APPLICATIONS FOR A PERMANENT RATE INCREASE, DOCKET NO. W-03443A-08-0313 AND

FINANCING APPROVAL, DOCKET NO. W-03443A-08-0177

Attached is the Staff Report for Appaloosa Water Company's, applications for a permanent rate increase and financing approval. Staff recommends approval of the rate case application using Staff's recommended rates and charges. Staff recommends approval of the financing application subject to Staff's recommendations.

Any party who wishes may file comments to the Staff Report with the Commission's Docket Control by 4:00 p.m. on or before March 12, 2009.

EGJ:CRM:kdh

Originator: Charles R. Myhlhousen

Attachment: Original and fifteen copies

Arizona Comoration Commission DOCKETED

MAR - 3 2009

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Service List for: Appaloosa Water Company Docket Nos. W-03443A-08-0313 and W-03443A-08-0177

Mr. Joseph Cordovana Appaloosa Water Company 7012 North 18th Street Phoenix, Arizona 85020

Ms. Janice M. Alward Chief Counsel, Legal Division Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007

Mr. Ernest G. Johnson Director, Utilities Division Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007

Ms. Lyn Farmer Chief Administrative Law Judge, Hearing Division Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007

STAFF REPORT UTILITIES DIVISION ARIZONA CORPORATION COMMISSION

APPALOOSA WATER COMPANY

DOCKET NO. W-03443A-08-0313, RATES AND DOCKET NO. W-03443A-08-0177, FINANCE

APPLICATIONS FOR A PERMANENT RATE INCREASE AND FINANCING APPROVAL

STAFF ACKNOWLEDGMENT

The Staff Report for Appaloosa Water Company, Docket Nos. W-03443A-08-0313 and W-03443A-08-0177, for a permanent rate increase and financing approval, respectively, was the responsibility of the Staff members listed below. Charles R. Myhlhousen was responsible for the review and analysis of the Company's applications recommended revenue requirements, rate base, rate design and financial analysis. Del Smith was responsible for the engineering and technical analysis. Carman Madrid was responsible for reviewing the Commission's records on the Company and reviewing customer complaints filed with the Commission.

Charles R. Myhlhousen

Public Utility Analyst III

Del Smith

De W. J

Utilities Engineer

Carmen Madrid

Public Utilities Consumer Analyst I

EXECUTIVE SUMMARY APPALOOSA WATER COMPANY DOCKET NOS. W-03443A-08-0313 AND W-03443A-08-0177

Appaloosa Water Company ("Company") serves the Appaloosa Meadows subdivision within the Town of Chino Valley, Arizona. The Company is engaged in the business of providing utility water service exclusively to Arizona customers in Yavapai County. The Company provides service to approximately 237 customers. The Company's current rates were effective April 1, 1998. This is the first rate case and long term financing case filed by the Company since the Certificate of Convenience and Necessity was issued in Decision No. 60733, March 23, 1998. The Company is a Class C utility.

The Company, in its rate application, requested an increase in revenue of \$162,489 or a 100.0 percent increase over test year revenue of \$162,489. The Company is proposing revenues of \$324,978 that results in an operating income of \$161,095, for an operating margin of 49.57 percent. The Company's requested rates would increase the typical residential bill with a median usage of 6,253 gallons from \$38.13 to \$76.27, for an increase of \$38.14 or 100.0 percent.

Staff is recommending no increase or decrease over Staff's adjusted test year revenue of \$142,873. Staff's recommended revenues of \$142,873, result in an operating income of \$24,474, for an operating margin of 17.13 percent. Staff's recommended rates would decrease the typical residential bill with a median usage of 6,253 gallons from \$38.13 to \$36.01, for a decrease of \$2.12 or 5.6 percent. This decrease is caused by Staff's redesign of rates to an inverted 3-tier commodity rate structure.

The Company, in its financing application, is requesting approval of \$192,300 of long term financing. The Company has also submitted an application to the Water Infrastructure Finance Authority of Arizona ("WIFA").

Staff recommends approval of financing in the amount of \$200,000.

Staff's recommended rates and charges would continue to provide an operating income of \$24,474 for an operating margin of 17.13 percent. The operating margin is within Staff's recommended range for operating margin.

Staff recommends:

• Approval of Staff's rates and charges as shown on Schedule CRM-4. In addition to collection of its regular rates and charges, the Company may collect from its customers the proportionate share of any privilege, sales or use tax per Commission Rule (14-2-409D-5).

- The Company be ordered to docket a tariff of its approved rates and charges within 30 days after the Decision in this matter is issued.
- The Company be ordered to use the depreciation rates delineated in Table B of the Engineering Report on a going forward basis.
- That the lease agreement on the well be cancelled.
- That \$200,000 finance request be approved.
- That the loans made to Joe Cordovana be substantiated with a written note and board approval and that Joe Cordovana pay back the loan in a timely manner.
- Approval of an arsenic cost recovery mechanism to provide recovery of arsenic remediation as described in this Report.
- That this docket remain open to facilitate implementation of an arsenic cost recovery mechanism.
- That the Company be required to report the actual water pumped data as read at the well meter on a monthly basis in future Annual Reports, beginning with the 2008 Annual Report filed in 2009.
- That the Company monitor the Appaloosa water system and submit the gallons pumped and sold to determine the non-account water for one full year. The Company should coordinate when it reads the well meters each month with customer billing so that an accurate accounting is determined. The results of this monitoring and reporting shall be docketed as a compliance item in this case within 13 months of the effective date of the order issued in this proceeding. If the reported water loss is greater than 10 percent the Company shall prepare a report containing a detailed analysis and plan to reduce water loss to 10 percent or less. If the Company believes it is not cost effective to reduce the water loss to less than 10 percent, it should submit a detailed cost benefit analysis to support its opinion. In no case shall the Company allow water loss to be greater than 15 percent. The water loss reduction report or the detailed analysis, whichever is submitted, shall be docketed as a compliance item within 13 months of the effective date of the order issued in this proceeding.
- That the Company's filed backflow prevention tariff be approved. Staff further recommends that the Company file the tariff with Docket Control, as a compliance item in this docket, within 45 days after the effective date of the decision in this case.
- That the Company file with Docket Control, as a compliance item in this docket, the Certificate of AOC issued by ADEQ or Yavapai County for the waterline extension across Road 4 North at Harrison Drive by December 31, 2009.

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Fact Sheet

Current Rates: Decision No. 60733, March 23, 1998, rates effective April 1, 1998.

Type of Ownership: Arizona "C" Corporation.

<u>Location</u>: The Company serves the Appaloosa Meadows subdivision within the Town of Chino Valley in Yavapai County. The Company Certificate of Convenience and Necessity ("CC&N") covers approximately two-thirds of a square mile. The Company also serves contiguous parcels covering roughly 60 acres north of its CC&N.

Rates:

Permanent rate increase application filed: June 20, 2008, amended July 29, 2008, August 7, 2008 and September 17, 2008.

<u>Finance:</u> The finance application was filed March 26, 2008.

Test Year: Current Test Year Ended: December 31, 2007.

	Company Current <u>Rates</u>	Company Proposed <u>Rates</u>	Staff Recommended <u>Rates</u>
Monthly Minimum Charge Based on 5/8 X 3/4 inch meter	\$25.00	\$50.00	\$25.00
Gallons in Minimum	1	1	0
Commodity Charge Excess of minimum, per 1,000 gallons	2.50	5.00	
Tier One zero gallons to 3,000 gallons Tier Two 3,001 gallons to 7,000 gallons Tier Three All gallons over 7,000 gallons			1.50 2.00 2.90
Typical residential bill (Based on median usage of 6.253 gallons)	\$38.13	\$76.27	36.01

Customers:

The average number of customers in current test year is 237.

Notification:

Customer Notification was mailed originally on June 18, 2008, corrected and resent on June 30, 2008.

Complaints:

There were four complaints from 01/01/2006 through 01/27/2009.

Summary of Filing

Based on adjusted test year results, Appaloosa Water Company ("Company") realized an operating income of \$24,474, for a 17.13 percent operating margin as shown on Schedule CRM-1

The Company's proposed rates produce operating revenue of \$324,978 and an operating income of \$161,095, for an operating margin of 49.57 percent. The Company's proposed rates increase the typical residential bill, with a median usage of 6,253 gallons, from \$38.13 to \$76.27, for an increase of \$38.14 or 100.0 percent.

Staff's recommended rates produce operating revenue of \$142,873 and an operating income of \$24,474, for an operating margin of 17.13 percent. Staff's recommended rates decrease the typical residential bill, with a median usage of 6,253 gallons, from \$38.13 to \$36.01, for a decrease of \$2.12 or 5.6 percent. This decrease is caused by Staff's redesign of rates to an inverted 3-tier commodity rate structure.

The Company is a class C utility, based on its proposed rates. Based on Staff's proposed rates, the Company is a Class D.

Company Background

The Commission granted the Company its Certificate of Convenience and Necessity ("CC&N") in Decision No. 60733, dated March 23, 1998. This is the Company's first rate application since the Company received its CC&N in 1998. The present owner, Artesian Holdings L.L.C., purchased the Company in 2006.

On June 20, 2008, the Company filed an application for a permanent rate increase with the Commission. On July 21, 2008, the Company's filing was found deficient. On July 29, 2008, August 7, 2008, and September 17, 2008, the Company submitted the items to correct the deficiencies. On October 17, 2008, Staff determined the application was sufficient. The Company's current test year ends on December 31, 2007.

The Company filed a financing application on March 27, 2008. Staff filed a motion to consolidate the rate and financing applications on October 21, 2008. A Procedural Order dated December 5, 2008, granted Staff's motion to consolidate the two applications.

Consumer Services:

A review of the Commission's records from January 1, 2006, through January 27, 2009, revealed that there were four customer complaints. Three complaints for quality of service and one for a rate case item. All complaints have been resolved and closed.

Compliance:

A check with the Utilities Division Compliance Section showed no outstanding compliance issues.

The Company is current in its property and sales tax payments.

The Company is in good standing with the Corporations Division of the Commission.

The Company's service area is located within the Prescott Active Management Area ("AMA"). The Company is in compliance with AMA reporting requirements and Arizona Department of Water Resources requirements governing water providers and/or community water system.

According to the May 9, 2008 Arizona Department of Environmental Quality ("ADEQ") Compliance Status Report, the system has major deficiencies in monitoring and reporting requirements for arsenic. The system's running annual average has exceeded the maximum contaminate level ("MCL") for arsenic. ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by Arizona Administrative Code, title 18, Chapter 4 because of these monitoring and reporting deficiencies.

Rate Base:

The Company's application indicates a rate base in the amount of \$679,726.

The Company could not verify the cost of plant items or obtain the invoices for the plant items added since 1998. The Company has Advances in Aid of Construction ("AIAC") in the amount of \$570,318. Since the Company could not verify who paid for these plant items, Staff has classified the balance of plant in service as Contributions in Aid of Construction ("CIAC") in the amount of \$759,327. Staff also made an adjustment of \$24,502 for CIAC amortization. Staff's adjustment decreases rate base by \$734,825, from \$679,726 to a negative \$55,099. See Schedule CRM-3.

Plant-in-Service:

Staff did not make any adjustments to plant in service. Staff agrees with the Company's plant in service amount of \$1,329,645 less accumulated depreciation of \$79,601. Staff's recommended net plant in service is \$1,250,044. The Company has a leased well that is not connected to the Company's water system. This well is not used by the Company. It is only leased in the event the Company has an emergency. This well is not included in plant in service. Staff recommends cancellation of the lease agreement for this well. The well is not used or useful. The owner of the well, Artesian Holdings L.L.C., pays all expenses and costs incurred by the well. See Schedules CRM-3 and CRM-4.

Accumulated Depreciation:

Staff concurs with the Company's accumulated depreciation of \$79,601.

Staff calculated accumulated depreciation by adding depreciation expense for the years 1998 through the end of 2007, to the Commission accumulated depreciation balance and subtracting accumulated depreciation for plant retirements from the Commission accumulated depreciation balance. This produces accumulated depreciation of \$79,601. See Schedule CRM-4

Advances-in-Aid-of-Construction:

Staff made no adjustments to advances-in-aid-of-construction ("AIAC").

Contributions-in-Aid-of-Construction:

The Company is not claiming contributions-in-aid-of-construction ("CIAC"). Staff recommends CIAC in the amount of \$759,327. This amount represents the amount of plant where the Company could not verify amount paid. Staff made an adjustment of \$24,502 for CIAC amortization. See Schedule CRM-14.

Operating Revenue:

The Company's application requests operating revenue of \$162,489. Staff made an adjustment to metered water revenue, decreasing operating revenue by \$19,616 from \$161,635 to \$142,019. The Company made a year end general ledger adjustment to metered water revenue of \$19,616; increasing metered water revenue by this amount. This adjustment should not have been made to metered water revenue. This should have been a prior period adjustment for advances in aid of construction in order to bring that account in balance to actual AIAC. Staff's adjusted operating revenue and the bill counts reconcile. See Schedules CRM-7, CRM-8 and CRM-9.

The plant nursery, the clubhouse and Joe Cordovana's personal residence all have separate domestic water wells and are not connected to, or receiving, water from the Company.

Operating Expenses:

Staff's adjustments to operating expenses result in a decrease of \$45,483 from \$163,883 to \$118,400 as shown on Schedule CRM-7 and CRM-8. Adjustments are discussed below.

Adjustment 2: decreases wages and salaries expense by \$2,491 from \$45,730 to \$43,239 to reflect Staff's analysis of wages and salaries. Staff allowed the salary paid to Tara Tangeman and the amount of salary stated in Joe Cordovana's employment contract with the Company. See Schedules CRM-7, CRM-8, and CRM-10.

Adjustment 3: decreases repairs and maintenance expense by \$5,269 from \$8,226 to \$2,957 to remove the costs of one time expenses that will not be repeated in the near future and removal of the cost of plant pavers for future plant use. See Schedule CRM-11.

Adjustment 4: decreases outside services expense by \$19,861 from \$30,589 to \$10,728 to reflect Staff's recommended expense level. Staff removed expenses will not be repeated in the near future. Staff reclassified \$1,433 from water testing expense to reflect an increase in the certified operator expense. This adjustment reflects the normalized annual water testing costs determined per Staff's Engineering Report at Table A. See Schedule CRM-12.

Adjustment 5: decreases water testing expense by \$1,433 from \$3,012 to \$1,579. This adjustment reflects the normalized annual water testing costs determined per Staff's Engineering Report at Table A. Staff reclassified \$1,433 from water testing expense to outside services expenses. See schedule CRM-13.

Adjustment 6: decreases depreciation expense by \$21,471 from \$39,792 to \$18,321, to reflect the amount of depreciation expense for the test year less the amount offset by amortization of CIAC. See Schedules CRM-14.

Adjustment 7: decreases taxes other than income by \$1,471 from \$2,173 to \$702. Staff removed the annual sampling cost of \$746. Staff also removed the balance of sales taxes of \$725. See Schedule CRM-15.

Adjustment 8: increases property taxes by \$38 from \$4,962 to \$5,030 to reflect the increased property taxes based on Staff's calculation of property taxes. See Schedules CRM-16.

Adjustment 9: increases income taxes by \$6,475 from zero to \$6,475 to reflect income taxes based on Staff's recommended operating revenue. See Schedules CRM-7, CRM-8 and CRM-17.

Staff's recommended rates and charges continue to provide an operating income of \$24,474 for an operating margin of 17.13 percent. This operating margin is within Staff's recommended range for operating margin. This operating income amount will give the Company sufficient cash for operating expenses and contingencies. See Schedule CRM-1.

Revenue Requirement

The Company's current rates have been in effect since the have not been increased since the original CC&N was issued in 1998.

Staff recommends total operating revenue of \$142,873 which is the same as Staff's adjusted test year revenue of \$142,873. Staff's recommendation provides sufficient operating revenue. See Schedules CRM-1

Operating Income:

Staff's recommended operating income is \$24,474. See Schedules CRM-7, CRM-8.

Operating Margin:

Staff recommends an operating margin of 17.13 percent. This margin will provide sufficient revenue to pay expenses and for contingencies.

Rate Design

Schedule CRM-18 reflects a complete list of the Company's present, proposed, and Staff's recommended rates and charges.

The Company's proposed rates increase the median usage residential customer bill by \$38.14 from \$38.13 to \$76.27 or 100.0 percent.

Staff's recommended rates decrease the median usage residential customer bill by \$2.12 from \$38.13 to 36.01 or 5.6 percent. This decrease is caused by Staff's redesign of rates to include an inverted 3-tier commodity rate structure.

The Company currently has a uniform rate design. Staff recommends a three-tier inverted rate design for the $5/8 \times 3/4$ inch and 3/4 inch meters and a two-tier inverted rate design for larger size meters.

The Company presently does not have a construction/bulk water tariff and has not requested one. Staff recommends a tariff of \$2.90 per 1,000 gallons for construction/bulk water sales.

Staff does not agree with the Company's proposed 100 percent increase in Service Line and Meter Installation Charges. Staff's recommendation will help ensure that the Company will have enough cash to pay for the actual installation of service for any meter size. See Schedule CRM-18.

The Company did not propose charges for fire sprinklers. Staff recommends charges for fire sprinklers. See Schedule CRM-18.

The Company proposed increases to service charges: (See Schedule CRM-18.)

The Company proposes an increase to Establishment charge from \$25.00 to \$50.00. The Company has not provided adequate information to support that amount. Staff recommends \$25.00. This amount is reasonable and normal.

The Company proposes an increase to Establishment (after hours) charge from \$50.00 to \$100.00. The Company has not provided adequate information to support that amount. Staff recommends \$50.00. This amount is reasonable and normal.

The Company proposes an increase to Reconnection (delinquent) from \$30.00 to \$60.00. The Company has not provided adequate information to support that amount. Staff recommends \$30.00. This amount is reasonable and normal.

The Company proposes an increase to Meter Test from \$15.00 to \$30.00. The Company has not provided adequate information to support that amount. Staff recommends \$15.00. This amount is reasonable and normal.

The Company proposes no change to Deposit service charge. Staff concurs.

The Company proposes no change to interest on deposits. Staff concurs.

The Company proposes no change to the Re-establishment service charge (within 12 months). Staff concurs.

The Company proposes an increase to Not Sufficient Funds check from \$15.00 to \$20.00. Staff concurs.

The Company proposes no change to Deferred Payment service charge. Staff concurs.

The Company proposed an increase to Meter Re-read service charge from \$15.00 to \$30.00. The Company has not provided adequate information to support that amount. Staff recommends \$15.00. This amount is reasonable and normal.

The Company proposed a change to its Late Fee service charge from 1.5 percent to 3 percent. The Company has not provided adequate information to support that amount. Staff

recommends one and one half percent on the unpaid balance per month. This amount is reasonable and normal.

Financing:

On March 26, 2008, the Company filed a financing application with the Commission requesting authorization to obtain a \$192,380 amortizing loan from the Water Infrastructure Finance Authority of Arizona ("WIFA"). The purpose of the financing is to fund a needed arsenic treatment facility. The Company has entered into an agreement with Adedge Technologies Inc. to construct the arsenic treatment facility. The Company's engineering cost for an arsenic treatment plant is \$192,380. The arsenic facility was built in 2008. The Company is testing and seeking approval for operation of the arsenic facility. The Company is requesting a 20-year amortizing loan from WIFA. The Company plans to use the funds to pay for the arsenic treatment facility.

Staff concludes that the proposed plant is appropriate and the estimated costs appear to be reasonable. However, this does not imply any particular future treatment for inclusion in rate base. No "used and useful" determination of the proposed plant was made, and no conclusion should be inferred for rate making or rate base purposes.

The Commission has previously authorized an arsenic cost recovery mechanism ("ACRM") to recover arsenic remediation costs. Staff concludes that authorization of an ACRM is an appropriate ratemaking treatment of the Company's, arsenic remediation costs.

The purpose of the ACRM is to permit recovery of the capital and operating costs of providing arsenic remediation once the plant is place in service when the in-service date occurs subsequent to the end of the test year. An ACRM is a two-step process. Each step requires the Company to make a filing that requests authorization for a surcharge. Step one provides for recovery of and on the arsenic plant investment. Step two provides for recovery of related operation and maintenance expenses ("O&M") going forward, and recovery of O&M deferred for up to twelve months prior to the step two filing. The specific O&M expenses that may be deferred and recovered are: 1) media replacement or regeneration costs, 2) media replacement or regeneration service costs or 3) waste media or regeneration disposal costs. Staff concludes that authorization of an ACRM that parallels those authorized in Decision Nos. 66400 and 68825 is appropriate for the Company. However, the earnings test for the ACRM should be established at Staff's recommended Operating Margin (17.13 percent). Accordingly, the Company should be required to submit ACRM filings to the Commission with the following ten schedules (See Exhibit B).

- 1. Balance Sheet most current one available as of time of filing.
- 2. Income Statement most current available as of time of filing with adjustments conforming with the decision.
- 3. Earnings Test A schedule verifying that the Company's arsenic rate surcharge will not result in operating income in excess of the authorized operating margin.

- 4. Rate Review Schedule including the incremental and pro forma effects of the proposed increase.
- 5. Arsenic Revenue Requirement Includes a calculation based on earnings test.
- 6. Surcharge Calculation a detailed surcharge calculation.
- 7. Rate Base a schedule showing the elements and the calculation of the rate base.
- 8. Construction Work in Progress (CWIP) Ledger a ledger showing the construction work in progress (as applicable).
- 9. Cost Allocation Factor Schedule a schedule of all cost allocation factors amounts.
- 10. Typical Bill Analysis A typical bill analysis showing the effects on residential customers at various consumption levels.

In its application, the Company provided a copy of the notice that it sent to its customers.

Staff Recommendations

- Approval of Staff's rates and charges as shown on Schedule CRM-4. In addition to collection of its regular rates and charges, the Company may collect from its customers the proportionate share of any privilege, sales or use tax per Commission Rule (14-2-409D-5).
- The Company be ordered to docket a tariff of its approved rates and charges within 30 days after the Decision in this matter is issued.
- The Company be ordered to use the depreciation rates delineated in Table B of the Engineering Report on a going forward basis.
- That the lease agreement on the well be cancelled.
- That \$200,000 finance request be approved.
- That the loans made to Joe Cordovana be substantiated with a written note and board approval and that Joe Cordovana pay back the loan in a timely manner.
- Approval of an arsenic cost recovery mechanism to provide recovery of arsenic remediation as described in this Report.
- That this docket remain open to facilitate implementation of an arsenic cost recovery mechanism.
- That the Company be required to report the actual water pumped data as read at the well meter on a monthly basis in future Annual Reports, beginning with the 2008 Annual Report filed in 2009.

- That the Company monitor the Appaloosa water system and submit the gallons pumped and sold to determine the non-account water for one full year. The Company should coordinate when it reads the well meters each month with customer billing so that an accurate accounting is determined. The results of this monitoring and reporting shall be docketed as a compliance item in this case within 13 months of the effective date of the order issued in this proceeding. If the reported water loss is greater than 10 percent the Company shall prepare a report containing a detailed analysis and plan to reduce water loss to 10 percent or less. If the Company believes it is not cost effective to reduce the water loss to less than 10 percent, it should submit a detailed cost benefit analysis to support its opinion. In no case shall the Company allow water loss to be greater than 15 percent. The water loss reduction report or the detailed analysis, whichever is submitted, shall be docketed as a compliance item within 13 months of the effective date of the order issued in this proceeding.
- That the Company's filed backflow prevention tariff be approved. Staff further recommends that the Company file the tariff with Docket Control, as a compliance item in this docket, within 45 days after the effective date of the decision in this case.
- That the Company file with Docket Control, as a compliance item in this docket, the Certificate of AOC issued by ADEQ or Yavapai County for the waterline extension across Road 4 North at Harrison Drive by December 31, 2009.

Appaloosa Water Company
Docket No. W-03443A-08-0313 AND W-03443A-08-0177

Test Year Ended December 31, 2007

SCHEDULES OF CHARLES R. MYHLHOUSEN

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CRM-19	TYPICAL BILL ANALYSIS

Appaloosa Water Company Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

REVENUE REQUIREMENT

			(A) MPANY	(B) COMPANY FAIR		S	(C) TAFF IGINAL		(D) TAFF FAIR
LINE <u>NO.</u>	DESCRIPTION		IGINAL COST		ALUE		COST		ALUE
1	Adjusted Rate Base	\$	679,726	\$	679,726	\$	(55,099)	\$	(55,099)
2	Adjusted Operating Income (Loss)	\$	(1,394)	\$	(1,394)	\$	24,474	\$	24,474
3	Current Operating Margin		-0.86%		-0.86%		17.13%		17.13%
4	Required Operating Margin		N/A		N/A		17.13%		17.13%
5	Required Operating Income	\$	161,095	\$	161,095	\$	24,474	\$	24,474
6	Operating Income Deficiency (L5 - L2)	\$	162,489	\$	162,489	\$	-	\$	-
7	Gross Revenue Conversion Factor		1.0000		1.0000		1.2914		1.2914
8	Required Revenue Increase (L7 * L6)	\$	162,489	\$	162,489	\$	0	\$	0
9	Adjusted Test Year Revenue	\$	162,489	\$	162,489	\$	142,873	\$	142,873
10	Proposed Annual Revenue (L8 + L9)	\$	324,978	\$	324,978	\$	142,873	\$	142,873
11	Required Increase in Revenue (%)		100.00%		100.00%		0.00%		0.00%
12	Rate of Return on Equity (%)	N/A		N/A		N/A		N/A	
12	Operating Margin (L5/L10)		49.57		49.57		17.13		17.13

References:
Columns [A] and [B]: Company Application Schedules
Columns [C] and [D]: STAFF Schedules CRM-2, CRM-3 and CRM-11

GROSS REVENUE CONVERSION FACTOR

LINE						
NO.	DESCRIPTION	(A)	(B)	(C)	(D)
	Calculation of Gross Revenue Conversion Factor:					
1	Revenue	1	00.0000%			
2	Uncollecible Factor (Line 11)		0.0000%			
3	Revenues (L1 - L2)		00.0000%			
4	Combined Federal and State Tax Rate (Line 17) + Property Tax Factor (Line 22)		22.5668%			
5	Subtotal (L3 - L4)		77.4332% 91435715			
6	Revenue Conversion Factor (L1 / L5)		31433713			
	Calculation of Uncollectible Factor:					
7	Unity		00.0000%			
8	Combined Federal and State Tax Rate (Line 17)		20.9228%			
9	One Minus Combined Income Tax Rate (L7 - L8)		79.0772% 0.0000%			
10	Uncollectible Rate		0.0000%			
11	Uncollectible Factor (L9 * L10)					
	Calculation of Effective Tax Rate:					
	Operating Income Before Taxes (Arizona Taxable Income)	1	00.0000%			
	Arizona State Income Tax Rate		6.9680%			
14			93.0320% 15.0000%			
15			0.139548			
16 17	Effective Federal Income Tax Rate (L14 x L15) Combined Federal and State Income Tax Rate (L13 +L16)		20.9228%			
.,	Compiled Control and Control (1907)					
	Calculation of Effective Property Tax Factor	_				
	Unity	1	00.0000%			
19			<u>20.9228%</u> 79.0772%			
20			2.0790%			
21 22	Property Tax Factor (XXX-18, L24) Effective Property Tax Factor (L 21 * L 22)	0.0	16439969			
23	Combined Federal and State Tax and Property Tax Rate (L17+L22)			22.5668%		
•	Demined Constitute Income (Cabadala VVV 1 Line 5)	\$	24,474			
24 25	Required Operating Income (Schedule XXX-1, Line 5) AdjustedTest Year Operating Income (Loss) (Schedule XXX-10, Line 40)	\$	24,474			
26	Required Increase in Operating Income (L24 - L25)		\$	0		
20	Troduced more and a prostating most many					
27	Income Taxes on Recommended Revenue (Col. (D), L52)	\$	6,475			
28	Income Taxes on Test Year Revenue (Col. (B), L52)	<u>\$</u>	6,475			
29	Required Increase in Revenue to Provide for Income Taxes (L27 - L28)		\$	-		
30	Recommended Revenue Requirement (Schedule XXX-1, Line 10)	\$	142,873			
31	Uncollectible Rate (Line 10)		0.0000%			
32	Uncollectible Expense on Recommended Revenue (L24 * L25)	\$	-			
33	Adjusted Test Year Uncollectible Expense	\$				
34	Required Increase in Revenue to Provide for Uncollectible Exp. (L32 - L33)		<u> </u>	-		
35	Property Tax with Recommended Revenue (XXX-18, L19)	\$	5,030			
36	Property Tax on Test Year Revenue (XXX-18, L 16)	Š	5,030			
37	Increasee in Property Tax Due to Increase in Revenue (XXX-18, L22)		_\$	0		
			_			
38	Total Required Increase in Revenue (L26 + L30 + L34+L37)		\$	0		
					STAFF	
	Calculation of Income Tax:	Test `	Year	Rec	commended	
39	Revenue (Schedule XXX-10, Col.[C], Line 5 & Sch. XXX-1, Col. [B], Line 10)	\$	142,873 \$	0 \$	142,873	
40	Operating Expenses Excluding Income Taxes	\$	111,924 \$	1 \$	111,924	
41		\$		\$		
	Arizona Taxable Income (L36 - L37- L38)	\$	30,949	\$	30,949	
43			6.9680% \$	2,157	6.9680% \$	2,157
44	Arizona Income Tax (L39 x L40) Federal Taxable Income (L33 - L35)	\$	28,792	2,137 \$	28,792	۲,۱۰۲
45 46	Federal Taxable Income (L33 - L35) Federal Tax on First Income Bracket (\$1 - \$50,000) @ 15%	\$	4,319	\$	4,319	
40 47	Federal Tax on Second Income Bracket (\$50,001 - \$75,000) @ 25%	Š	-	\$		
48	Federal Tax on Third Income Bracket (\$75,001 - \$100,000) @ 34%	\$	-	\$	-	
49	Federal Tax on Fourth Income Bracket (\$100,001 - \$335,000) @ 39%	\$	-	\$	•	
50	Federal Tax on Fifth Income Bracket (\$335,001 -\$10,000,000) @ 34%	\$	-	\$	•	
51	Total Federal Income Tax		\$	4,319	<u>\$</u> \$	4,319
52	Combined Federal and State Income Tax (L35 + L42)		\$	6,475	3	6,475
53	Applicable Federal Income Tax Rate (Col. (D), L42 - Col. (B), L421 / (Col. (C), L36 -	- Col. (A), L361				15.00%

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

RATE BASE - ORIGINAL COST

LINE NO.		(A) COMPANY AS <u>FILED</u>	(B) STAFI ADJUSTM		(D) STAFF AS DJUSTED
1 2 3	Plant in Service Less: Accumulated Depreciation Net Plant in Service	\$ 1,329,645 79,601 \$ 1,250,044	\$	- - -	\$ 1,329,645 79,601 1,250,044
•	LESS:				
4 5 6	Contributions in Aid of Construction (CIAC) Less: Accumulated Amortization Net CIAC		24	9,327 1 4,502 2 4,825	\$ 759,327 24,502 734,825
7	Imputed Regulatory Contributions	-		-	-
8	Advances in Aid of Construction (AIAC)	570,318		-	570,318
9	Imputed Regulatory Advances	-		-	-
10	Customer Deposits	-		-	-
11	Investment Tax Credits	• -		-	-
12	Deferred Income Tax Credits (Debits)	-		-	-
	ADD:				
13	Cash Working Capital	-		- '	
12	Prepayments	-		•	-
13	Supplies Inventory	-			-
14	Projected Capital Expenditures	-		-	-
15	Deferred Debits	-		-	-
16	Citizens Acquisition Adjustment	•		-	
17	Original Cost Rate Base	\$ 679,726	\$ 73	4,825	\$ (55,099)

References:

Column [A], Company Application
Column [B]: Column [C] - Column [A]
Column [C]: Schedule CRM-4
ADJ 1 Schedule CRM-4
ADJ 2 Schedule CRM-13

SUMMARY OF ORIGINAL COST RATE BASE ADJUSTMENTS

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		741	re1 (/	~1	[D]
	4007		[A] COMPANY		C] .di S	TAFF
LINE	ACCT.	DESCRIPTION	AS FILED		-,	MMENDED
<u>NO.</u>	<u>NO.</u>	DESCRIPTION	<u></u>			
	PLANT IN S	ERVICE:				
1		Intangible Plant			•	264
2		Organization	\$ 264	\$ -	\$ \$	2,309
3		Franchises	2,309	•	\$	3,161
4	303.00	Land & Land Rights	3,161	•		5,734
5		Subtotal Intangible	5,734	-		0,704
6		O of Comple				
7 8	204.00	Source of Supply Structures & Improvements	67,051	_	\$	67,051
9		Collecting and Impounding Res.		-		
10		Lake River and Other Intakes		-		
11		Wells and Springs	238,519	•	\$	238,519
12		Infiltration Galleries and Tunnels		-		
13		Supply Mains		-		
14		Power Generating Equipment		-		
15		Electric Pumping Equipment	94,131	-	\$	94,131
16	312.00	Collecting & Impounding Reservoirs	•	-		
17	313.00	Lakes, Rivers, Other Intakes				200 704
18		Subtotal Source of Supply	399,701			399,701
19						
20		Water Treatment				_
21		Water Treatment Equipment		· ·		_
22		Structures & Improvements	•	-		_
23		Other Power Production	-	•		_
24		Electric Pumping Equipment				-
25		Diesel Pumping Equipment	-			-
26	328.10	Gas Engine Pumping Equipment Subtotal Water Treatment		•		-
27		200foral Aartel Licannein			-	
28 29		Transmission & Distribution				
30	330 00	Distribution Reservoirs & Standpipe	100,438	-	\$	100,438
31	330.00	Transmission and Distribution Mains	745,102	-	\$	745,102
32		Services		-	\$	-
33		Meters	15,055	-	\$	15,055
34		Hydrants	48,876	- .	\$	48,876
35		Backflow Prevention Devices	-	-		
36		Other Plant and Miscellaneous Equipment				
37		Subtotal Transmission & Distribution	909,471			909,471
38						
39		General Plant			•	1,850
40		Office Furniture and Equipment	1,850	•	\$	1,650
41		Computer and Software		•		
42		Transportation Equipment		-		
43		Stores Equipment		-		
44		Tools and Work Equipment		-		
45		Laboratory Equipment				
46 47		Power Operated Equipment Communications Equipment		-		
48		Miscellaneous Equipment				
49		Other Tangible Plant	12,889	-	\$	12,889
50	349.00	Plant Held for Future Use	-		_	
51		Subtotal General Plant	14,739			14,739
52						
53		Total	1,329,645	-	\$	1,329,645
54	Add:					
55				•		
56			-	-		
57	Less:					•
58				-		
59			- 1 000 015		\$	1 220 645
60	Total Plant		\$ 1,329,645 79,601	\$ -	4	1,329,645 79,601
61		umulated Depreciation	\$ 1,250,044		\$	1,409,246
62		n Service (L59 - L 60)	\$ 1,230,044	CO. A. M	<u> </u>	
63						
64		in Aid of Construction (CIAC)		\$ 759,327	1 \$	759,327
65		ons in Aid of Construction (CIAC)		24,502	2 \$	24,502
66 67		cumulated Amortization		734,825		734,825
67		AC (L25 - L26) egulatory Contributions			•	
68 69		in Aid of Construction (AIAC)	570,318		\$	570,318
70		egulatory Advances		-		
71		Meter Deposits		-		
72		t Tax Credits		•		
73		ncome Tax Credits (Debits)		•		
74			=	•		
	ADD:		-	-		
76		king Capital Allowance		-		
77			-	-		
78	Supplies I		-	-		
79	•	Capital Expenditures	-	-		
80			-	-		
81		lly left blank	\$ 679,726	\$ 734,825	\$	(55,098)
82	Original C	Cost Rate Base	₩ 013,120	, 01,020		

References; Schedule CRM-5 Schedule CRM-13 Column [A] + Col [B] =Col [D]

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

RATE BASE ADJUSTMENT #1 - Contributions in aid of construction (CIAC)

			[A]		[B]		[C]		
LINE			COMPANY	;	STAFF	S	TAFF		
<u>NO.</u>		DESCRIPTION	Test Year	<u>ADJ</u> L	<u>JSTMENTS</u>				
1	Cor	ntribution in Aid of Construction	.0.00	\$	759,327	\$	759,327		
2									
3							-		
4	Total Co	nstributions in Aid of Construction	\$ -			\$	759,327		
5									
6		Total Plant in Service	\$ 1,329,645						
7	Less:	Advances (AIAC)	570,318						
8		Balance of Plant CIAC	\$ 759,327						
9									
10	REFERE	ENCES:							
11	Col: [A] I	Line 5 Company Application Page	14						
12	Col;[A] L	ine 6 Company Application Page 2	24						
13	Col:[B]	Staff Report CRM							
14	Col: [C]	Col; [A] +Col:[B]							

Appaloosa Water Company Docket No. W-03443A-08-0313

Test Year Ended December 31, 2007

RATE BASE ADJUSTMENT #2 - Contributions in Aid of Construction (CIAC) Amorization

LINE	DESCRIPTION Contribution in Aid of Construction Amorization	[A]	[B]	[C]
<u>NO.</u>		COMPANY	STAFF	STAFF
1		<u>Test Year</u>	ADJUSTMENTS	RECOMMENDED
2		.0.00	\$ 24,502	\$ 24,502
	Staff adjusted contribution in aid of construction Depreciation Rate CIAC amorization	\$ 759,327 0.032268616 \$ 24,502		

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

OPERATING INCOME STATEMENT - TEST YEAR AND STAFF RECOMMENDED

				[A]		(B)	[C]		[D] STAFF	ſ	E]		(F)	
LINE NO.		COMPANY TEST YEAR DESCRIPTION AS FILED		ST YEAR	TE	STAFF ST YEAR JSTMENTS	ADJ No.	TEST YEAR AS ADJUSTED		PROF	AFF POSED NGES	STAFF RECOMMENDED		
	REVENU													
1	461.00		\$	161,635	\$	(19,616)	1	\$	142,019	\$	0	\$	142,019	
2	460.00			-		-			•				-	
3	474.00			854			. ,		854		<u> </u>		854	
4		Total Operating Revenues	\$	162,489	\$	(19,616)		\$	142,873	\$	0	\$	142,873	
5														
6		ING EXPENSES:	_	4		10 1011	_		10.000			•	40.000	
7		Wages and Salaries	\$	45,730		(2,491)	2	\$	43,239	\$	-	\$	43,239	
8		Purchased Water		-		-					-			
9		Purchased Power		8,320		-			8,320		•		8,320	
10		Chemicals		-		- -	_		-		-		0.057	
11		Repairs & Maintenance		8,226		(5,269)	3		2,957		-		2,957	
12	621.00			4,751		(40.004)			4,751		•		4,751	
13		• • • • • • • • • • • • • • • • • • • •		30,589		(19,861)	4		10,728		-		10,728	
14		Water Testing		3,012		(1,433)	5		1,579		-		1,579	
15	641.00			8,000		-			8,000		-		8,000	
16	650.00	•		-		-			-		-		-	
17	657.00			6,673		-			6,673		-		6,673	
18	675.00	Miscellaneous Expense		1,625		-	_		1,625		•		1,625	
19	403.00	Depreciation Expense		39,792		(21,471)	6		18,321		-		18,321	
20	408.00	Taxes Other Than Income		2,173		(1,471)	7		702		-		702	
21	408.11	Property Taxes		4,992		38	8		5,030		-		5,030	
22	409.00					6,475	9		6,475		•	6,475		
23		Total Operating Expenses	_	163,883		(45,483)		_	118,400	-		118,400		
24		Operating Income (Loss)	\$	(1,394)	\$	25,867	;	\$	24,474	\$	U		24,474	

References:

Column (A): Company Schedule Page 19
Adj No 1 Schedule CRM 9
Adj No. 2 Schedule CRM 10

Adj No. 2 Schedule CRM 10
Adj No. 3 Schedule CRM 11
Adj No. 4 Schedule CRM 12
Adj No 5 Schedule CRM 13
Adj No 6 Schedule CRM 14
Adj No 7 Schedule CRM 15
Adj No 8 Schedule CRM 16
Adj No 9 Schedule CRM 17

Appaioosa Water Company
Docket No. W-0343A-08-0313
Test Year Ended December 31, 2007

SUMMARY OF OPERATING INCOME ADJUSTMENTS - TEST YEAR

[J] STAFF	ADJUSTED	142 019) !	854	142,873		43,239	•	8,320	,	2,957	4,751	10,728	1,579	8,000		6,673	1,625	18,321	702	5,030	6,475	118,400 24,474
S	ADJ						.																ماما
5	ADJ #9 Income		,	,	•		· •							1	1		1		į	•		6,475	\$6,475
E	ADJ #8 Property Tax		•		, \$,		,	•		•	•					•	88	•	\$ 38 38
Ξ	ADJ #7 Taxes Other		,	•	.s		•	•		•	•						•	•	•	(1,471)	•	•	\$ (1.471) \$ 1.471
<u>[6]</u>	ADJ #6 Depreciation Expense	. ·	•	•	, G		,	•						•		•	•	•	(21,471)	•	•	•	\$ (21,471) \$ 21,471
Œ	ADJ #5 Water Testing	•	,	•	, s		, •	•	•		•	•	,	(1,433)	•				•	•	•	•	(1,433)
Œ	ADJ #4 Outside Services	•	•		,		, •	•	•	•	•	•	(19,861)	•	,	•		•	•	•	•	•	\$ (19,861) \$ 19,861
[0]	ADJ #3 Repairs and Maintenance	·			چ			•	•	•	(5,269)	•		•	•	,	,	•		•	•	•	\$ (5,269) \$ 5,269
<u>D</u>	ADJ#2 Salaries and Wages	· ·		•			(2,491)																\$ (2,491) \$ (2,491)
[8]	ADJ #1 Metered Water Revenue	\$ (19,618)		•	\$ (19,616)		, •	٠	•	•	•	•	•	•	•	•		•	•	•	•	•	\$ (19,616) \$ (19,616)
[A] COMPANY	ASFILED	\$ 161,635	,	854	\$ 162,489		\$ 45,730	•	8,320	•	8,226	4,751	30,589	3,012	8,000	•	6,673	1,625	39,792	2,173	4,992		163,883 \$ (1,394)
	DESCRIPTION	461 00 Metered Water Revenue	460.00 Water Sales - Unmetered	474.00 Other Operating Revenue	Total Operating Revenues	6 OPERATING EXPENSES:	601.00 Wages and Salaries	610.00 Purchased Water	615.00 Purchased Power) Chemicals	Repairs & Maintenance	Office Supplies and Expense		Water Testing		Transportation	Insurance General Liability	Miscellaneous Expense	Depreciation Expense	Taxes Other Than Income	Property Taxes	Income taxes	Total Operating Expenses Operating income (Loss)
LNE	NO. REVENUES:	1 46100	2 460.00	3 474.00	4 n	6 OPERATIN	7 601.00	8 610.00	9 615.00	10 618.00	11 620.00	12 621.00	13 630.00	14 635.00	15 641.00	16 650.00	20 657.00	22 675.00	23 403.00	25 408.00	•		78

References

Adj No 1 Schedule CRM 9
Adj No. 2 Schedule CRM 10
Adj No. 3 Schedule CRM 11
Adj No. 4 Schedule CRM 12
Adj No 5 Schedule CRM 13
Adj No 6 Schedule CRM 14
Adj No 7 Schedule CRM 15
Adj No 8 Schedule CRM 15
Adj No 9 Schedule CRM 16
Adj No 9 Schedule CRM 16
Adj No 9 Schedule CRM 16

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT #1 - Meter Water Revenue

			[A]		[B]		[C]
			Company			Staff	
Line			As		Staff		As
No.	Description		Filed		<u>Adjustments</u>		<u>Adjusted</u>
1	Meter Water Revenue	\$		31,635	\$ (19,616)	\$	142,019
2							
3							
4							
5	Metered Water Revenue	•				\$	161,635
6	Journal entry incorrectly	post to me	tered water reve	enue.			(19,616)
7	Adjusted Metered Water					\$	142,019
8							
9	References						
10	Col. [A] Company Sched	lule Page 1	9				
11	Col [B] General Ledger I	Page 199 a	nd Staff Report-	CRM			
12	Col. [C] - Col. [E] = Col.						

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT # 2 - Wages and Salaries

		[A]		[B]		[C]		
		Compar	ıy			Staff		
Line		As		Sta	aff		As	
No.	Description	Filed		<u>Adjust</u>	<u>ments</u>		<u>Adjusted</u>	
1	Wages and Salaries	\$ 45	,730 _ 9	5	(2,491)	\$	43,239	
2								
3								
4	References							
5	Col. [A] Company Sche	edule Page	19			\$	45,730	
6	Per Staff Report- CRM						43,239	
7	Col. [A] - Col. [B] = Col	. [C]				\$	(2,491)	
8								
9	Explanation							
10	Tara Salary Test Year		9	\$	13,239			
11	Joe Cordvana Contrac	t Salary			30,000			
13	Total		<u> </u>	\$	43,239			

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT #3 - Repairs and Maintenance

	•		[A]	[B]		[C]
		Company				Staff
Line			As	Staff		As
<u>No.</u>	Description	E	iled	<u>Adjustments</u>		<u>usted</u>
1	Repairs and Maintenance	\$	8,226	\$ (5,269)	\$	2,957
2						
3	The following are one time expen	ses an	d not expe	ected to repeat in	n the nea	r future.
4						
5	Casual Labor	•				
6	Blas Guerro Barcenos			\$ (318.72)		
7	Ramro Raminez			(424.96)		
8	Paula Flores			(102.00)		
9	Beatiz Rabago			(280.00)		
10	Beatiz Rabago			(224.00)		
11	Ferando Valenzuela			(216.00)		
12	Prescott Lock and Safe			(231.76)		
13						
14	For future plant use					
15	Phoenix Pavers for arsenic plant			(3,472.00)		
16	Total			\$ (5,269.44)		
17						
18	References					
19	Col. [A] Company Schedule Page	19			\$	8,226
20	Per Staff Report - CRM					(5,269)
21	Col. [C] - Col. [E] = Col. [G]				\$	2,957

Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT # 4 - Outside Services

PEKAII	ING INCOME ADJUSTMENT # 4 - Outside Ser	[A]		[B]	[C]
		Company			Staff
Line		As		Staff	As
<u>No.</u>	<u>Description</u>	<u>Filed</u>	. —	ljustments	 Adjusted
1	Outside Services	30,589	<u>\$</u>	(19,861)	\$ 10,728
2	-				
3					
4	References				
5	Col. [A] Company Schedule Page 19				\$ 30,589
6	Per Staff Report - CRM				 (19,861)
7	Col. [C] - Col. [E] = Col. [G]	•			\$ 10,728
8					
9	The following are one time expenses or				
10	not test year expenses. The one time expens	es			
11	are not expected to repeat in the near future.				
12	LESS:				
13	Management fee paid for year 2006		\$	6,000.00	
19	Brian Ingram			1,000.00	
20	M.E. Evans Survey			1,975.00	
21	Nelson Law Office Invoice No. 10264			1,856.31	
22	Nelson Law Office Invoice No. 10268			1,453.29	
23	Douglas C. Nelson Invoice No. 10284			1,083.82	
24	Douglas C. Nelson Invoice No. 10288			1,022.08	
25	Douglas C Nelson Invoice No.10293			1,065.00	
26	Welker Land Surveying July 14, 2007			625.00	
27	Stegall Katz, Whitker P.C. # 44783			212.50	
28	Douglas c. Nelson Invoice No. 10303			2,026.11	
29	Bobby Bings Catering			1,000.00	
30	M.E. Evans Survey Invoice No. 709			1,975.00	
31	Sub-Total		\$	21,294.11	
32	ADD:				
33	Transfer from Water Testing Expense - addition	onal operator exp.		1,433.00	
34	Total	,		19,861.11	

Docket No. W-03443A-08-0313 AND W-03443A-08-0177

Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT # 5 - Water Testing Expense

		[A]	[B]		[C]
		Company		;	Staff
Line		As	Staff		As
<u>No.</u>	<u>Description</u>	<u>Filed</u>	<u>Adjustments</u>	<u>Ac</u>	<u>djusted</u>
1	Water Testing Expense	\$ 3,012	<u>\$ (1,433)</u>	\$	1,579
2	-				
3				,	
4	<u>References</u>				
5	Col. [A] Company Sched	ule Page 19		\$	3,012
6	Per Staff Report - CRM				(1,433)
7	Col. [A] - Col. [B] = Col. [[C]		\$	1,579
8					
9	Per Staff Engineer trans	ferred to Outside S	ervices	\$	(1,433)
10	for additional operator co	st.			

Schedule CRM-14

Appaloosa Water Company

Docket No. W-03443A-08-0313

Test Year Ended December 31, 2007

	OPERATING INCOME ADJUSTMENT # 6 - Depreciation	[A]	[B]	[C]
		Company		Staff
Line		As	Staff	As
No.	Description	<u>Filed</u>	<u>Adjustments</u>	<u>Adjusted</u>
	Depreciation Expense	\$ 39,792.00	\$ 3,031.00	\$ 18,321.00
2	CIAC amorizaton		(24,502.00)	•
3	Total		\$ (21,471.00)	=
4				
5				
6	Plant in Service	\$ 1,329,645.00		
7				
8	Total Advances in aid of construction	 570,318.00		
9	Balance of Plant	\$ 759,327.00		
10				
11	Contributions in aid of construction	\$ 759,327.00		
12	Depreciation Rate	0.032268616		
13	Depreciation reduction for contributions (CIAC) Amorization	\$ 24,502.43		
14				
15	Depreciation claimed in application Page 19	\$ 39,792.00		
16	•	3,031.00		
17		\$ 42,823.00		
18	Less: CIAC amorization	24,502.00	-	
19	Test Year adjusted depreciation less CIAC amorization	\$ 18,321.00		

- 20 <u>References</u>21 Line 10 Company's Application Page 1922 Line 14 per Staff Report CRM

Docket No. W-03443A-08-0313 AND W-03443A-08-0177 Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT #7 - Taxes Other Than Income

Line <u>No.</u> 1	<u>Description</u> Taxes Other Than Income	[A] Company As Filed \$ 2,173	[B] Staff Adjustments \$ (1,471)	[C] Staff As <u>djusted</u> 702
	References Col. [A] Company Schedule Per Staff Report - CRM Col. [C] - Col. [B] = Col. [C]			\$ 2,173 (1,471) 702
	Annual Sampling Fee included by Staff engineer. removal of balance of sales		ng expense	\$ (746) (725) (1,471)

Appaloosa Water Company Docket No. W-03443A-08-0313

Test Year Ended December 31, 2007

OPERATING INCOME ADJUSTMENT #8-PROPERTY TAXES

LINE			STAFF		STAFF
NO.	Property Tax Calculation	AS ADJUSTED		RECOMMEND	
			Column [A]		Column [B]
1	Staff Adjusted Test Year Revenues - 2006	\$	142,873	\$	142,873
2	Weight Factor		2		2
3	Subtotal (Line 1 * Line 2)		285,746	\$	285,746
4	Staff Recommended Revenue, Per Schedule CRM-6		142,873	\$	142,873
5	Subtotal (Line 4 + Line 5)		428,619		428,619
6	Number of Years		3	_	3
7	Three Year Average (Line 5 / Line 6)		142,873	\$	142,873
8	Department of Revenue Mutilplier		2		2
9	Revenue Base Value (Line 7 * Line 8)		285,746	\$	285,746
10	Plus: 10% of CWIP -		-	_	-
11	Less: Net Book Value of Licensed Vehicles		-	\$	-
12	Full Cash Value (Line 9 + Line 10 - Line 11)		285,746	\$	285,746.00
13	Assessment Ratio		23.5%		23.5%
14	Assessment Value (Line 12 * Line 13)		67,150	\$	67,150
15	Composite Property Tax Rate		7.4900%		7.4900%
16	Staff Proposed Property Tax Expense (Line 14 * Line 15)	\$	5,030		
17	Company Proposed Property Tax		4,992		
18	Staff Test Year Adjustment (Line 16-Line 17)	\$	38		
19	Property Tax - Staff Recommended Revenue (Line 14 * Line 15)			\$	5,030
20	Staff Test Year Adjusted Property Tax Expense (Line 16)			\$	5,030
21	Increase/(Decrease) to Property Tax Expense			\$	0
00	Decrees to Property Tay Eveness			\$	0
22	Decrease to Property Tax Expense			•	0
23	Increase in Revenue Requirement				0.000074%
24	Decrease to Property Tax per Dollar Increase in Revenue (Line19/Line 20)				

References:
Col [A]: Company Application Page 19
Col [B]: Staff Report CRM

Appaloosa Water CompanyDocket No. W-03443A-08-0313 AND W-03443A-08-0177

Test Year Ended December 31, 2007

OPERATING INCOME	ADJUSTMENT	#9	INCOME TA	XES
------------------	------------	----	-----------	-----

		[A]	[B]		[C]		[D]
Calculation of Income Tax:							
Revenue (Schedule	\$	142,873	0.00001	\$	142,873		
Operating Expenses Excluding Income Taxes	\$	111,924		\$	111,924		
Synchronized Interest (L47)		0			0		
Arizona Taxable Income	\$	30,949		\$	30,949		
Arizona State Income Tax Rate		0.06968			0.06968		
Arizona Income Tax			\$ 2,157			\$	2,157
Federal Taxable Income	\$	28,792		\$	28,792		
Federal Tax on First Income Bracket (\$1 - \$50,000) @ 15%	Š	4,319		\$	4,319		
Federal Tax on Second Income Bracket (\$50,001 - \$75,000) @ 25%	•	0			, O		
Federal Tax on Third Income Bracket (\$75,001 - \$100,000) @ 34%		0			0		
Federal Tax on Fourth Income Bracket (\$10,001 - \$335,000) @ 39%		Ô			0		
		ŏ			ñ		
Federal Tax on Fifth Income Bracket (\$335,001 -\$10,000,000) @ 34%		·	\$ 4,319		ŭ	¢	4,319
Total Federal Income Tax		-	\$ 6,475	-		*	6,475
Combined Federal and State Income Tax (L12 + L19)		_	Φ 0,475	=	:	Ψ	0,413

Applicable Federal Income Tax Rate [Col. (D), L42 - Col. (B), L42] / [Col. (C), L36 - Col. (A), L36]

0.150000061

Income Taxes on Recommended Revenue (Col. (D), L52) Income Taxes on Test Year Revenue (Col. (B), L52)

6,475

Appaloosa Water Company Docket No. W-03443A-08-0313 Test Year Ended December 31, 2007

RATE DESIGN

	Staff
Proposed	Recommended
50.00	25.00
50.00	25.00
83.34	41.67
166.66	83.33
266.66	133.33
533.34	266.67
833.34	416.67
1666.66	833.33
	50.00 83.34 186.66 266.66 533.34 833.34

Commodity Charges Gallons included in any Minimum

Excess of Minimum - per 1,000 Gallons

5/8" x 3/4" Meter 3/4" Meter

1" Meter 1½" Meter 2" Meter 3" Meter 4" Meter 6" Meter

Present		Comp	any Proposed		taff Reco	ommend	led
	1.000 1.000		Z	Zero			
1:	st Tier	1:	1st Tier		1st Tier 2nd Tier		3rd Tier
\$	2.50	S	5.00	\$ 1.5	0 \$	2.00	\$ 2.90
\$	2.50	\$	5.00	3,00	Ю	7,000	Infinite
\$	2.50	s	5.00	3,00	ю	7,000	Infinite
		- 1	i	1st Tier	2n	d Tier	
	İ	ı		\$ 2.0	0 \$	2.90	n/a
\$	2.50	s	5.00	7.00	0	Infinite	n/a
	2.50	8	5.00	15,00	юİ	Infinite	n/a
\$ \$	2.50	İs	5.00	24.00		Infinite	n/a
Š	2.50	Š	5.00	48,00		Infinite	n/a
\$ \$	2.50	Š	5.00	75,00		Infinite	n/a
Š	2.50	Š	5.00	150,00		Infinite	n/a
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Service Line and Meter Installation Charges

5/8" x 3/4" Meter 3/4" Meter 1" Meter 1½" Meter 2" Turbine Meter 2" Compound Meter 3" Turbine Meter 3" Compound Meter 4" Turbine Meter 4" Compound Meter 6" Turbine Meter 6" Compound Meter

Present Rates	Company	Proposed	Staff Recommended		d
Total	Service Line	Meter Install.	Service Line Meter Install.		Total
400.00	800.00		445.00	155.00	600.00
440.00	880.00		445.00	255.00	700.00
500.00	1,000.00		495.00	315.00	810.00
715.00	1,430.00		550.00	525.00	1,075.00
1,170.00	2,340.00		830.00	1,045.00	1,875.00
1,700.00	3,400.00		830.00	1,890.00	2,720.00
1,585.00	3,170.00		1,045.00	1,670.00	2,715.00
2,190.00	4,380.00		1,165.00	2,545.00	3,710.00
2,570.00	5,080.00		1,490.00	2,670.00	4,160.00
3,215.00	6,430.00		1,670.00	3,645.00	5,315.00
4,815.00	9,630.00		2,210.00	5,025.00	7,235.00
6,270.00	12,540.00		2,330.00	6,920.00	9,250.00

Service Charges

Establishment Establishment (After Hours) Reconnection (Delinquent) Reconnection (Delinquent)- After Hours

Meter Test (If Correct) Deposit (1)

Re-Establishment (Within 12 Months) 92)

NSF Check

Deferred Payment (3)

Meter Re-Read (If Correct)

	Company	Staff
Present	Proposed	Recommended
25.00	50.00	25
50.00	100.00	50
30.00	60.00	30
50.00	100.00	50
15.00	30.00	15
per rule	per rule	•
months off sys	months off sys	**
10.00	20.00	20
per rule	per rule	
15.00	30.00	15
1.5% of outsa	1.5% of outstan	****

Monthly Service Charge for Fire Sprinkler

4 inch or Smaller	n/a	n/a	*****
6 inch	n/a	n/a	*****
8 inch	n/a	n/a	*****
10 inch	n/a	n/a	*****

Larger than 10 inch

- Company Proposed

 1 Per Rule deposit (R-14-2-403.B)
 2 Per Rule Deposit Interest (R-14-2-403.B.3)
 - Per Rule Resestablishment (14-2-403.D.1) 3

Staff Recommneded

- Per Commission Rules (R14-2-403.B) Two times the average bill.
- Per Commission Rules (R14-2-403.B) Two and one-half times the average bill
- Per Commission Rules (R14-2-403.B)
- Months off system times the minimum (R14-2-403.D)
- 100 percent of monthly minimum for a comparable Sized Meter Connection, but no less that \$5.00 per month. The Service Charge for Fire Sprijnklers is only applicable for service lines separate and distinct from the primary water service line.

Appaloosa Water Company Docket No. W-0-3443A-08-0313

Test Year Ended December 31, 2007

TYPICAL BILL ANALYSIS

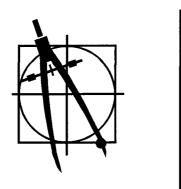
General Service 3-4 Inch Meter

Average Number of Customers: 189

Company Proposed	Gallons	Present Rates	Proposed Rates	Dollar Increase	Percent Increase
Average Usage	9,938	\$47.34	\$94.69	\$47.35	100.0%
Median Usage	6,253	\$38.13	\$76.27	\$38.14	100.0%
Stoff Brancoad					
Staff Proposed					
Average Usage	9,938	\$47.34	\$46.02	(\$1.32)	-2.8%
Median Usage	6,253	\$38.13	\$36.01	(\$2.12)	-5.6%

Present & Proposed Rates (Without Taxes) General Service 3-4 Inch Meter

		Company		Staff	
Gallons	Present	Proposed	%	Proposed	%
Consumption	<u>Rates</u>	<u>Rates</u>	<u>Increase</u>	Rates	<u>Increase</u>
0	\$25.00	\$50.00	100.0%	\$25.00	0.0%
0	\$25.00 25.00	50.00	100.0%	26.50	6.0%
1,000	25.00 27.50	55.00	100.0%	28.00	1.8%
2,000			:::	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
3,000	30.00	60.00	100.0%	29.50	-1.7%
4,000	32.50	65.00·	100.0%	31.50	-3.1%
5,000	35.00	70.00	100.0%	33,50	-4.3%
6,000	37.50	75.00	100.0%	35,50	-5.3%
7,000	40.00	80.00	100.0%	37.50	-6.3%
8,000	42.50	85.00	100.0%	40.40	-4.9%
9,000	45.00	90.00	100.0%	43.30	-3.8%
10,000	47.50	95.00	100.0%	46.20	-2.7%
15,000	60.00	120.00	100.0%	60.70	1.2%
20,000	72.50	145.00	100.0%	75.20	3.7%
25,000	85.00	170.00	100.0%	89.70	5.5%
50,000	147.50	295.00	100.0%	162.20	10.0%
75,000	210.00	420.00	100.0%	234.70	11.8%
100,000	272.50	545.00	100.0%	307.20	12.7%
125,000	335.00	670.00	100.0%	379.70	13.3%
150,000	397.50	795.00	100.0%	452.20	13.8%
175,000	460.00	920.00	100.0%	524.70	14.1%
200,000	522.50	1,045.00	100.0%	597,20	14.3%



ENGINEERING REPORT FOR APPALOOSA WATER COMPANY

Docket Nos. W-03443A-08-0177 (Financing) & W-03443A-08-0313 (Rates)

By Del Smith

December 8, 2008

CONCLUSIONS

- 1. Staff concludes that Appaloosa Water Company's ("Appaloosa" or "Company") system well production and storage capacities are adequate to serve the present customer base and up to 279 service connections. Staff further concludes that it can reasonably be expected that Appaloosa will develop needed storage and production to serve its CC&N area when needed.
- 2. Based on an Arizona Department of Environmental Quality ("ADEQ") Compliance Status Report, dated May 9, 2008, the system has major deficiencies in monitoring and reporting requirements for arsenic. The system's running annual average has exceeded the maximum contaminate level ("MCL") for arsenic. Because of these monitoring and reporting deficiencies, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.
- 3. Appaloosa's service area is located within the Prescott Active Management Area ("AMA"). Appaloosa is in compliance with Prescott AMA reporting requirements and Arizona Department of Water Resources ("ADWR's") requirements governing water providers and/or community water systems.
- 4. A check of the Compliance Section database showed that the Company had no delinquent Commission compliance issues.
- 5. The Company has an approved curtailment tariff that became effective on May 13, 2006.
- 6. With regard to Appaloosa's request for financing approval to fund the purchase and installation of arsenic treatment plant, Staff concludes that the proposed plant is appropriate and the estimated costs appear to be reasonable. However, this does not imply any particular future treatment for rate base. No "used and useful" determination of the proposed plant was made, and no conclusions should be inferred for rate making or rate base purposes

RECOMMENDATIONS

- 1. The Company has been reporting data for water pumped in its Annual Reports that is not based on actual data read at the well meter but instead is the same quantity as reported for gallons sold. Therefore, Staff cannot determine the actual level of non-account water from the Company's Annual Reports. Staff recommends that the Company be required to report the actual water pumped data, as read at the well meter, on a monthly basis in future Annual Reports, beginning with the 2008 Annual Report filed in 2009.
- 2. Staff recommends that the Company monitor the Appaloosa water system and submit the gallons pumped and sold to determine the non-account water for one full year. The Company should coordinate when it reads the well meters each month with customer billing so that an accurate accounting is determined. The results of this monitoring and reporting shall be docketed as a compliance item in this case within 13 months of the effective date of the order issued in this proceeding. If the reported water loss is greater than 10 percent the Company shall prepare a report containing a detailed analysis and plan to reduce water loss to 10 percent or less. If the Company believes it is not cost effective to reduce the water loss to less than 10 percent, it should submit a detailed cost benefit analysis to support its opinion. In no case shall the Company allow water loss to be greater than 15 percent. The water loss reduction report or the detailed analysis, whichever is submitted, shall be docketed as a compliance item within 13 months of the effective date of the order issued in this proceeding.
- 3. Staff recommends that the Company file with Docket Control, as a compliance item in this docket, within 90 days of the effective date of the order in this matter, the certificate of Approval of Construction ("AOC") for the arsenic treatment plant. Staff further recommends that any permanent rate increase granted in this case become effective on the first day of the month after the Company files with Docket Control, as a compliance item in this docket, ADEQ documentation reporting that there are no compliance deficiencies and the Company is delivering water that meets the water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.
- 4. Staff recommends an annual water testing expense of \$1,579 be used for purposes of this application and further recommends that the remaining \$1,433 of the reported \$3,012 be classified as part of the water operator's fee.
- 5. Staff has developed typical and customary depreciation rates within a range of anticipated equipment life. These rates are presented in Table B. Staff recommends that the Company use these depreciation rates by individual NARUC category in the future.
- 6. Staff recommends that the Service Line and Meter Installation Charges listed under "Staff's Recommendation" in Table C be adopted.
- 7. On November 4, 2008, the Company filed a backflow prevention tariff based on Staff's backflow prevention tariff template posted on the Commission's website. Staff

recommends that this tariff be approved. Staff further recommends that the Company file the tariff with Docket Control, as a compliance item in this docket, within 45 days after the effective date of the decision in this case.

8. Staff recommends that the Company file with Docket Control, as a compliance item in this docket, the Certificate of AOC issued by ADEQ or Yavapai County for the waterline extension across Road 4 North at Harrison Drive by December 31, 2009.

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A. INTRODUCTION AND LOCATION OF COMPANY

On March 26, 2008, Appaloosa Water Company ("Appaloosa" or "Company") filed a request for financing approval to construct an arsenic treatment facility with the Arizona Corporation Commission ("ACC" or "Commission). On June 20, 2008, Appaloosa filed an application with the Commission to increase its rates, needed in part, according to the Company, to cover increased expenses associated with the arsenic treatment facility the Company was constructing. The ACC Utilities Division Staff ("Utilities Staff") engineering review and analysis of both applications is presented in this report.

Appaloosa serves the Appaloosa Meadows subdivision within the Town of Chino Valley. Figure 1 shows the location of the Company within Yavapai County and Figure 2 shows the Certificate of Convenience and Necessity ("CC&N") covering approximately two-thirds of a square-mile. Appaloosa also serves contiguous parcels covering roughly 60 acres (Two Parcels) north of its CC&N.

B. DESCRIPTION OF THE WATER SYSTEM

Del Smith and Charles Myhlhousen, with Utilities Staff, visited the Appaloosa water system on October 22, 2008, by in the accompaniment of Joseph Cordovana, the Company's President. The Company's current certified operator changed mid test year 2007. The current operator is Kimble McClymonds, the owner of Yavapia Water Production. Mr. McClymonds was present at the Booster Pump Station during Staff's inspection.

The water system consists of two wells, one storage tank, a Booster Pump Station equipped with two booster pumps a pressure tank and fire pump, and a distribution system serving 237 customers as of year end 2007. A water system schematic is shown as Figure 3 and Table A includes a detailed plant facility listing.

¹ Joseph Fiano, the owner of Water Treatment Operators was the Company's certified operator prior to Mr. McClymonds.

Table A. Plant Facilities Summary²

Well Data

	Well No 1	Well No. 2	Well No. 3 (Note 1)
ADWR ID No.	55-607274	55-607273	55-607272
Casing Size	16 inches	12 inches	16 inches
Casing Depth	665 feet	260 feet	200 feet
Pump Size in Horsepower (Hp)	7.5 Hp	10 Hp	na
Pump Yield in Gallons Per	125 GPM	175 GPM	na
Minute (GPM)	·	Ĺ	
Meter Size	6 inch	6 inch	na
Year Drilled	1966	2003	1942

Notes

Storage, Pumping & Structures

Storage, Pumping & Structures					
Structure or Equipment	Location	Quantity and Capacity			
Pumps	Well Site #1 (Booster Pump	1- 10 Hp			
	Station)	(Spare for back-up)			
		2 -10 Hp (Booster Pumps)			
		1- 100 Hp (Fire Pump)			
Pressure Tank	Booster Pump Station	1 - 5,500 gallon			
Storage Tank	Booster Pump Station	1- 65,000 gallon			
(38' Diameter x 8' Height)					
28'x 24' Pump House	Booster Pump Station	1			
(Note 1)					
60' x 140 'Slump Block	Booster Pump Station	1			
Wall with iron entry gate					
(Note 2)					
Arsenic Treatment System	Booster Pump Station	1 – 200 GPM			
AdEdge APU (Notes 3 & 4)					

Notes:

- 1) Houses Booster Pumps, Pressure Tank and Fire Pump.
- 2) Fence surrounding the Booster Pump Station.
- 3) AdEdge Adsorption Package Unit (APU); Capacity: Up to 200 GPM
- 4) Construction had been completed at the time of Staff's inspection. The Company was conducting system tests needed for final regulatory approval.

¹⁾ This well is not in use and has been capped.

² Based on the Company's application and Staff's site visit.

Distribution Mains

Diameter	Material	Length
8 inches	PVC	5,395 feet
6 inches	PVC	22,933 feet
4 inches	PVC	1,657 feet
2 inches	PVC	3,589 feet

Meters

Size	Quantity
5/8 x 3/4 inch	191
1 inch	45

Fire Hydrants

Size/Description	Quantity
Standard	26

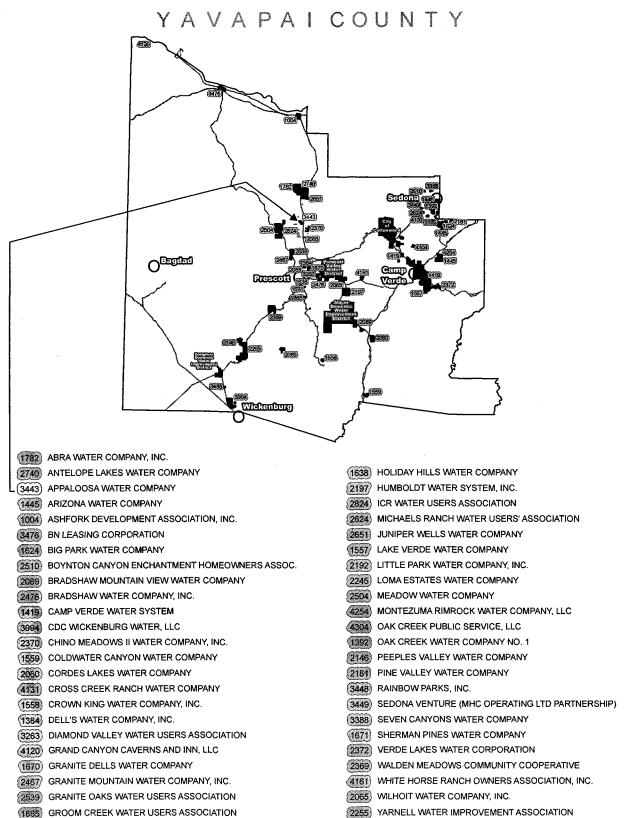


Figure 1. County Map

COUNTY: Yavapai

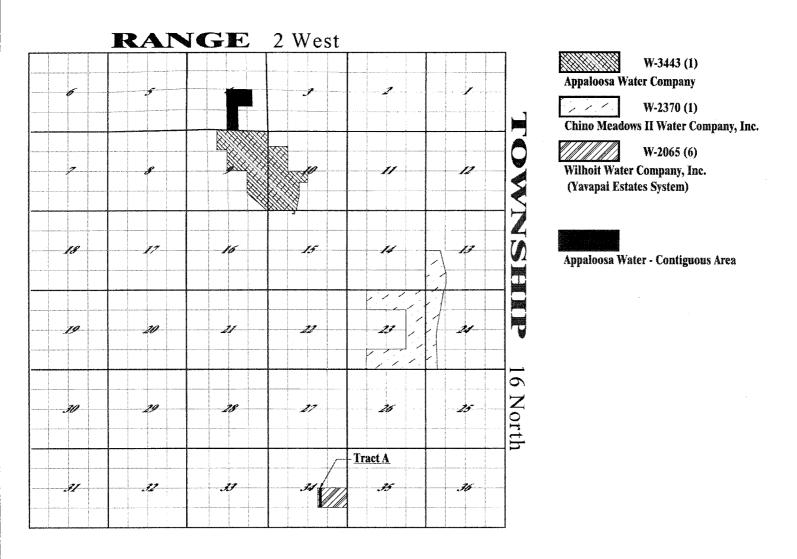


Figure 2. Certificated Area

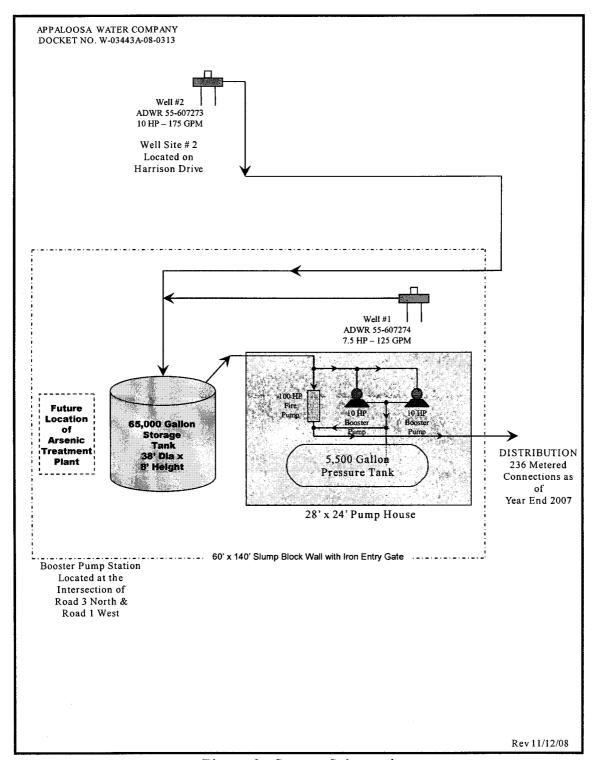


Figure 3. System Schematic

C. WATER USE

Water Sold

Figure 4 presents the water consumption data provided by the Company for the test year ending December 31, 2007.³ Customer consumption included a high monthly water use of 443 gallons per day ("GPD") per connection in August, and a low water use of 198 GPD per connection in March. The average annual use was 315 GPD per connection.

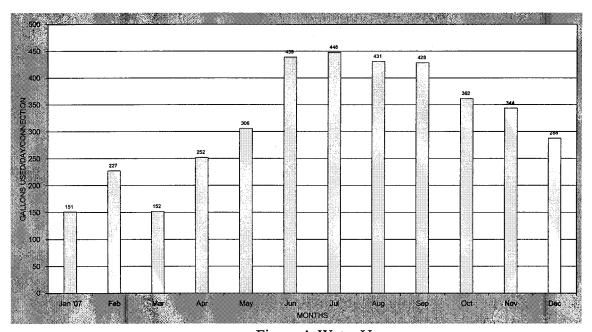


Figure 4. Water Use

Non-Account Water

Non-account water should be 10 percent or less. It is important to be able to reconcile the difference between water sold and the water produced by the source. A water balance will allow a company to identify water and revenue losses due to leakage, theft and flushing. The Company reported 27,648,501 gallons pumped and 27,583,509 gallons sold for the test year, resulting in a water loss of .24 percent, which is well within the recommended threshold amount of 10 percent. According to information provided by the Company the amount of water pumped was derived and not based on monthly data read at the well meter therefore the amount of non-account water reported by the Company may not be accurate.⁴

³ Based on an amended water use data sheet provided in response to Staff's Data Request CM 5.2 received on October 9, 2008.

⁴ See Company response dated October 20, 2008, to Staff Data Request DS 7.2.

Appaloosa Water Company December 8, 2008 Page 8

The Company has been reporting data for water pumped in its Annual Reports that is not based on actual data read at the well meter but instead is the same quantity as reported for gallons sold. Therefore, Staff cannot determine the actual level of non-account water from the Company's Annual Reports. Staff recommends that the Company be required to report the actual water pumped data as read at the well meter on a monthly basis in future Annual Reports, beginning with the 2008 Annual Report filed in 2009.

Staff recommends that the Company monitor the Appaloosa water system and submit the gallons pumped and sold to determine the non-account water for one full year. The Company should coordinate when it reads the well meters each month with customer billing so that an accurate accounting is determined. The results of this monitoring and reporting shall be docketed as a compliance item in this case within 13 months of the effective date of the order issued in this proceeding. If the reported water loss is greater than 10 percent the Company shall prepare a report containing a detailed analysis and plan to reduce water loss to 10 percent or less. If the Company believes it is not cost effective to reduce the water loss to less than 10 percent, it should submit a detailed cost benefit analysis to support its opinion. In no case shall the Company allow water loss to be greater than 15 percent. The water loss reduction report or the detailed analysis, whichever is submitted, shall be docketed as a compliance item within 13 months of the effective date of the order issued in this proceeding.

System Analysis

Based on the data provided by the Company, the system's well production capacity is 300 GPM and total storage capacity is 65,000 gallons. There are fire hydrants in the distribution system. The system had 236 connections as of December 2007. Staff concludes that the system's well production and storage capacities are adequate to serve the present customer base and up to 279 service connections. Staff further concludes that it can reasonably be expected that Appaloosa will develop needed storage and production to serve its CC&N area when needed.

D. GROWTH

Figure 5 details the customer growth using linear regression analysis. The number of service connections was obtained from annual reports submitted to the Commission. During the test year 2007, the Company had 237 metered customers and it is projected that the Company could have approximately 338 customers by 2012.

⁵ The Company reported that as of July 31, 2008, there were 234 customers billed for water service.

⁶ The 279 service connections equate to approximately two years of growth based on Staff's growth projection presented in Figure 5.

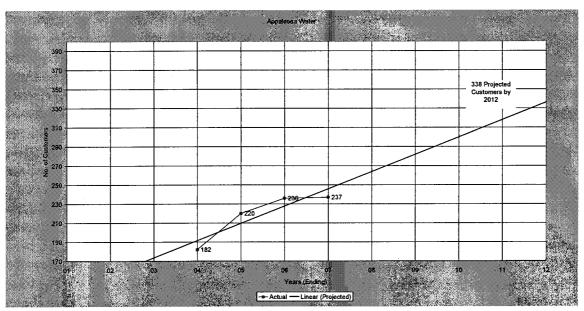


Figure 5. Growth Projection

E. ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY ("ADEQ") COMPLIANCE

Compliance

ADEQ regulates the water system under ADEQ Public Water System I.D. #13-208. Based on a Compliance Status Report, dated May 9, 2008, the system has major deficiencies in monitoring and reporting requirements for arsenic. The system's running annual average has exceeded the maximum contaminate level ("MCL") for arsenic. The system will not be in compliance until the Company applies for an arsenic exemption and receives approval for the exemption to install arsenic treatment or in the alternative completes construction of an arsenic treatment plant and obtains a Certificate of Approval of Construction for this treatment plant. Because of these monitoring and reporting deficiencies, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

Staff recommends that the Company file with Docket Control, as a compliance item in this docket, within 90 days of the effective date of the order in this matter the Certificate of Approval of Construction for the arsenic treatment plant. Staff further recommends that any permanent rate increase become effective on the first day of the month after the Company files with Docket Control, as a compliance item in this docket, ADEQ documentation reporting that there are no compliance deficiencies and the Company is delivering water that meets the water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

Water Testing Expense

The Company is subject to mandatory participation in the Monitoring Assistance Program ("MAP"). Participation in the MAP program is mandatory for water systems, which serve less than 10,000 persons (approximately 3,300 service connections). Starting January 1, 2002, water companies paid a fixed \$250 per year fee, plus an additional fee of \$2.57 per service connection, regardless of meter size for participation in MAP.

The Company reported its water testing expense at \$3,012 during the test year by combining water testing costs and a portion of water operator's fees. Staff has reviewed the Company's testing expense and has recalculated the testing costs to remove non-water testing fees, and to add the omitted monitoring requirements for lead & copper.

Total coliform (2 samples monthly) MAP – IOCs, Radiochemical, Nitrate,	\$30 MAP	per 3 years 72 MAP	\$720 \$746
Nitrite, Asbestos, SOCs, & VOCs Lead & Copper	\$34	10	\$113

Table A. Water Testing Cost

Note: ADEQ's MAP invoice for the 2007 Calendar Year was \$746.01.

Staff recommends an annual water testing expense of \$1,579 be used for purposes of this application and further recommends that the remaining \$1,433 of the reported \$3,012 be classified as part of the water operator's fee.⁷

F. ARIZONA DEPARTMENT OF WATER RESOURCES ("ADWR") COMPLIANCE

Appaloosa's service area is located within the Prescott Active Management Area ("AMA"). Appaloosa is in compliance with Prescott AMA reporting requirements and ADWR's requirements governing water providers and/or community water systems.⁸

⁷ The current certified operator has informed the Company that once the arsenic system is in production his charges will increase to \$475 per month (certified operator fees reported for the latter half of the test year averaged \$200 per month).

⁸ Per ADWR Water Provider Compliance Status Report received November 14, 2008.

G. ARIZONA CORPORATION COMMISSION COMPLIANCE

A check of the Utilities Staff Compliance Section database showed that the Company had no delinquent Commission compliance issues.⁹

H. DEPRECIATION RATES

For purposes of this rate application the Company used depreciation rates per National Association of Regulatory Utility Commissioners ("NARUC") plant category that were the same or lower than the rates typically recommended by Staff except in the case of hydrants where the Company used a higher rate. Staff has developed typical and customary depreciation rates within a range of anticipated equipment life. These rates are presented in Table B and it is recommended that the Company use these depreciation rates by individual NARUC category.

⁹ Per Compliance Section email dated November 14, 2008.

Table B. Depreciation Rate Table for Water Companies

		Average	Annual
NARUC	Depreciable Plant	Service Life	Annual
Acct. No.	Depreciable Flam	(Years)	Rate
Acci. No.		(Tears)	(percent)
304	Structures & Improvements	30	3.33
305		40	2.50
	Collecting & Impounding Reservoirs		
306	Lake, River, Canal Intakes	40	2.50
307	Wells & Springs	30	3.33
308	Infiltration Galleries	15	6.67
309	Raw Water Supply Mains	50	2.00
310	Power Generation Equipment	20	5.00
311	Pumping Equipment	8	12.5
320	Water Treatment Equipment		
320.1	Water Treatment Plants	30	3.33
320.2	Solution Chemical Feeders	5	20.0
330	Distribution Reservoirs & Standpipes		
330.1	Storage Tanks	45	2.22
330.2	Pressure Tanks	20	5.00
331	Transmission & Distribution Mains	50	2.00
333	Services	30	3.33
334	Meters	12	8.33
335	Hydrants	50	2.00
336	Backflow Prevention Devices	15	6.67
339	Other Plant & Misc Equipment	15	6.67
340	Office Furniture & Equipment	15	6.67
340.1	Computers & Software	5	20.00
341	Transportation Equipment	5	20.00
342	Stores Equipment	25	4.00
343	Tools, Shop & Garage Equipment	20	5.00
344	Laboratory Equipment	10	10.00
345	Power Operated Equipment	20	5.00
346	Communication Equipment	10	10.00
347	Miscellaneous Equipment	10	10.00

I. OTHER ISSUES

1. Service Line and Meter Installation Charges

The Company has requested changes in its service line and meter installation charges. These charges are refundable advances and the Company requested charges are higher than

Staff's customary range of charges. It appears that the Company simply doubled the existing rates for every size and type of meter. Staff recommends the upper end of its customary range of charges. Staff believes its recommended charges listed below are more reflective of current costs than the Company's proposed charges. Since the Company may at times install meters on existing service lines, it would be appropriate for some customers to only be charged for the meter installation. Therefore, separate service line and meter charges have been developed by Staff. Staff recommends that the charges listed under "Staff's Recommendation" in Table C be adopted.

Meter Size Staff's Recommendation Company Company Service Line Total **Current Tariff** Proposed Meter Charge Charge Charge \$445 $5/8 \times 3/4$ -inch \$400 \$800 \$155 \$600 \$440 \$880 \$445 \$255 \$700 3/4-inch \$500 \$1000 \$495 \$315 \$810 1-inch 1-1/2-inch \$715 \$1,430 \$550 \$525 \$1,075 2-inch Turbine \$1,170 \$2,340 \$830 \$1,045 \$1,875 \$1,700 \$3,400 \$830 \$1,890 \$2,720 2-inch Comp \$1,670 3-inch Turbine \$1,585 \$3,170 \$1,045 \$2,715 3-inch Comp \$2,190 \$4,380 \$1,165 2,545 \$3,710 \$2,540 \$5,080 \$1,490 \$2,670 \$4,160 4-inch Turbine 4-inch Comp \$3,215 \$6,430 \$1,670 \$3,645 \$5,315 \$7,235 6-inch Turbine \$4,815 \$9,630 \$2,210 \$5,025 \$12,540 \$2,330 \$6,920 6-inch Comp \$6,270 \$9,250

Table C. Service Line and Meter Installation Charges

2. Curtailment Tariff

The Company has an approved curtailment tariff that became effective on May 13, 2006.

3. Backflow Prevention Tariff

On November 4, 2008, the Company filed a backflow prevention tariff based on Staff's backflow prevention tariff template posted on the Commission's website. ¹⁰ Staff recommends that this tariff be approved. Staff further recommends that the Company file the tariff with Docket Control, as a compliance item in this docket, within 45 days after the effective date of the decision in this case.

¹⁰ The Company filed its proposed tariff in Docket No. W-03443A-08-0313.

4. Waterline Extension across Road 4 North at Harrison Drive

ADEQ issued a Notice of Opportunity to Correct ("NOC") to Appaloosa on May 27, 2008, regarding the subject waterline extension. According to the NOC the alleged violations were 1) failure to obtain an Approval to Construct ("ATC") prior to beginning construction of a waterline extension and 2) failure to obtain an AOC before operation of a newly constructed water line. ADEQ became aware of the alleged violations after it received an email from the Town of Chino Valley and reviewed the facility files at ADEQ.

Apparently the waterline in question was installed by the contractor in a manner that did not meet ATC specifications and requirements. According to the Company an ATC for the Waterline extension had been issued by Yavapai County prior to the lines construction. However, the line was installed by boring under the road bed as opposed to opening a trench and installing the water line inside a sleeve as specified in the Certificate of ATC issued by the County. Allegedly the contractor failed to flush, chlorinate and test the new line as required. Staff understands that recent tests have been conducted to ensure safe water is being delivered.

Staff recommends that the Company take immediate action to bring the waterline into compliance with the Certificate of ATC issued by the County. Once the waterline has been installed in the manner required, the Company can seek to obtain the Certificate of AOC and bring its water system into compliance. Staff further recommends that the Company file with Docket Control, as a compliance item in this docket, the Certificate of AOC issued by ADEQ or Yavapai County for the waterline extension across Road 4 North at Harrison Drive by December 31, 2009.

The waterline extension across Road 4 North at Harrison Drive serves Appaloosa customers (a nursery and club house) in a portion of the SE ¼ of Section 4 in T-16-N, R-2-W, identified more specifically as Parcel "B". In a letter dated November 16, 2006, Appaloosa notified Staff that per A.A.C. Rule R14-2-402 (C) that it was extending service to two parcels identified as Parcel A and Parcel B and that both were contiguous to the Company's CC&N. Using a metes and bounds legal description for each Parcel Staff verified that each Parcel is contiguous to the Company's CC&N as required.

5. Sale of Lot 20

Well No. 2 is located on Lot 20 in the Appaloosa Meadows Phase II Subdivision, Yavapai County. Appaloosa provided Staff with a copy of the Warranty Deed wherein the real property containing Well No. 2 was transferred (sold) by the Company. The Company also

¹¹ The NOC is an informal compliance assurance tool used to put a responsible party on notice that ADEQ believes a non-significant violation of an environmental law has occurred. The NOC provides the responsible party (in this case Appaloosa) an opportunity to resolve the violation or deficiency before ADEQ takes formal action. A Notice of Violation may be issued if the violation is not corrected within 180 days.

Appaloosa Water Company December 8, 2008 Page 15

provided Staff with copies of the Plat Map¹² showing the recorded easement. The easement appears to be adequate at least for the Company to gain access to perform routine maintenance and to read the well meter. It does not appear that the operation and maintenance of Well No. 2 within the easement violates any ACC or ADEQ rule or regulation as long as the Company has access to the well whenever it is needed.

6. Financing Application to Fund Arsenic Treatment

On March 26, 2008, Appaloosa filed a request for financing, the Company plans to use the funds, if approved by the Commission, to construct an arsenic treatment facility to reduce the level of arsenic in its water supply. Appaloosa has two wells which supply water to the system. According to data included in the Company 2007 Annual Report filed with the Commission, the level of arsenic for each well is 16 parts per billion ("ppb") which exceeds the new standard of 10 ppb.

Based on an ADEQ Compliance Status Report, dated May 9, 2008, the Appaloosa water system has major deficiencies in monitoring and reporting requirements for arsenic. The system's running annual average has exceeded the MCL for arsenic. The system will not be in compliance until the Company applies for an arsenic exemption and receives approval for the exemption to install arsenic treatment or in the alternative completes construction of an arsenic treatment plant and obtains a Certificate of AOC for this treatment plant.

Appaloosa entered into a turnkey agreement with AdEdge to install an arsenic treatment reduction system at the Company's Well Site #1 (aka Booster Pump Station). ¹⁴ Construction of the arsenic treatment plant has been completed and is undergoing final testing. The Company expects to receive its certificate of AOC for the plant by year end 2008.

Staff concludes that the proposed arsenic treatment plant is appropriate and the estimated costs appear to be reasonable. However, this does not imply any particular future treatment for

¹² According to the Plate of Record in Book 42 of Maps, Pages 63-65, Records of Yavapai County, Arizona.

¹³ On January 3, 2008, Appaloosa filed a funding request with the Water Infrastructure Finance Authority of Arizona ("WIFA"). The amount requested from WIFA was \$225,000. Appaloosa was ranked no. 11 for funding on WIFA's 2008 priority list.

¹⁴ AdEdge is on ADEQ's approved list of vendors for arsenic removal equipment. It is Staff's understanding that the AdEdge system proposed for Appaloosa is proven technology. ADEQ has previously approved this treatment process for use in other parts of the State.

ATTACHMENT B

ACRM Tutorial

The purpose of this workbook is to provide guidance in the filing on an ACRM step one filing. It is not meant to be all inclusive. It does not necessary reflect the ACC's position on filing. It cannot be relied on exclusively as the one definitive source for all ACRM information.

What is an ACRM filing?

When the EPA released its new arsenic guidelines on January 23, 2001, it was clear that public utilities would need a means to comply with the new requirements. Typically new rates are only obtained during the rate application process. Rather than have 400 water companies all file rate cases, the Commission saw the need to give utilities the ability to finance arsenic remediation efforts outside of a rate case in a more time efficient manner. Thus, the Arsenic Cost Recovery Mechanism (ACRM) was born.

What does an ACRM achieve?

The ACRM gives utilities the means to recover costs related to the remediation of arsenic contamination. An ACRM can only be approved for arsenic related costs and not the drilling of a new well or the installation of a storage tank, for example. The ACRM is designed to give utilities the means to recover arsenic related expenditures necessary to comply with EPA regulations.

What does a company need (document wise) to file an ACRM?

The Company will need to produce the following:

Current Balance Sheet (for company, not consolidated) schedule 1

Current Income Statement (for company, not consolidated) schedule 2

A schedule of arsenic related expenditures (e.g. CWIP Ledger) schedule 8

What important calculations will the Company need to make?

Annual operating margin	schedule 3
Depreciation on Arsenic Plant	schedule 5
Effect on tax liabilities due to arsenic related expenditures	schedule 5
Gross Revenue Conversion Factor	schedule 5
Arsenic Surcharge Requirement	schedule 5
Comparison of water sold in test year versus current period	schedule 6
Comparison of rate base in test year to period including arsenic plant	schedule 7
The typical bill analysis for residential customers	schedule 9

List of Schedules

The following **EXAMPLE** schedules supply the necessary information required by Staff to arrive at the required ACRM surcharge.

<u>Please note</u>: The figures in the following schedules are for illustrative purposes only. They are not intended to reflect any actual balances.

- Balance Sheet The most recent balance sheet for the at the time of filing the ACRM request.
- 2. Income Statement The most recent income statement.
- 3. <u>Earnings Test</u> An earning test calculation. Purpose is to assure that the Company's actual return including the arsenic surcharge does not exceed the authorized return.
- 3A. <u>Earnings Test Adjustment Schedule</u> .- An earning test calculation with any adjustments that you may have to arrive at the corrected adjusted balance.
- 4. Rate Review Filing A rate review calculation.
- 5. <u>Arsenic Compliance Revenue Requirement</u> An arsenic compliance revenue requirement calculation. Purpose is to calculate the amount of the surcharge based on the capitalized arsenic plant components, depreciation, O&M expenses, etc.
- Surcharge Calculation A detailed calculation of the necessary surcharge.
 to cover the cost of the Plant in Service and the Depreciation expense associated with
 it. This schedule breaks out the surcharge equally between the monthly charge and
 the commodity charge.
- 7. Rate Base Calculation A schedule showing the elements and the calulation of the rate base. The purpose of this schedule is to show the rate base balances as of the prior decision and the effect of the capitalized arsenic plant increases.
- 8. <u>CWIP Ledger</u> A ledger showing the transactions recorded in the <u>construction</u> work in <u>progress</u> account. This balance is posted to Schedule 5.
- 9. <u>Typical Bill Analysis</u> A schedule showing the ACRM impact on the Typical 5/8-inch Residential Customer monthly bill.

Sources:

ACC Decision No. 66400 dated 10/14/03 docket No. W-01445A-00-0962 ACC Decision No. 69181 dated 10/5/06 docket No. W-01303A-05-0280

ILLUSTRATION ONLY

Balance Sheet figures ar the the most recent date prior to ACRM filing

[A]

			[A]
Line No.	Description	Month	Year Ending
110.	<u> </u>	14101111	
	<u>ASSETS</u>		
1	Utility Plant in Service	\$	117,493
2	Accumulated Depreciation - Utility		(88,071)
3	Property Held for Future Use		•
4	Construction Work in Process		2,000
5	Subtotal Utility Plant	\$	31,422
_			
6	Non-Utility Property		. •
7	Accumulated Depreciation - Nonutility		•
8	Other investments		
9	Subtotal Non-Utility Property and Investments	\$	-
	Current Assets		
10	Cash		500
11	Working Funds		-
12	Temporary Cash Investments		-
13	Customer Accounts Receivable		-
14	Notes Receivable		6,721
15	Plant Material & Supplies		
16	Prepayments		-
17	Miscellaneous Current & Accrued Assets		3,070
18	Other		
19	Total Current Assets	-\$	10,291
	5.6 15.13		
20	Deferred Debits		
20	Debt and preferred stock Expense of rate proceeding		-
21 22	Prelim survey & invest charges		500
23	Reg Asset-income tax recovery		500
24	Other		
25	Total Deferred Debits	\$	500
		*	
26	Total Assets	\$	42,213
	CAPITAL AND LIABILITIES		
27	Common Stock	\$	-
28	Paid in capital		-
29	Retained Earnings		9,151
30	Total Equity	\$	9,151
~4	Destance destants		
31 32	Preferred stock		•
33	Long term debt Total Capitalization	\$	9,151
•	rotal Supranzation	Ψ	0,101
	Current Liabilities		
34	Accounts Payable		200
35	Notes Payable (current portion)		25,000
36	Notes Payable to Associated Companies		1,000
37	Customer deposits		5,148
38	Taxes accrued		1,064
39	Accrued Interest		50
40	Miscellaneous current & accrued liabilities		600
41	Other		
	0.11.4.40		
42	Subtotal Current Liabilities		33,062
42	Deferred Credits		
43	Deletted Credits		
44			
	Contributions in Aid of Construction		_
	Contributions in Aid of Construction		-
45	Contributions in Aid of Construction TOTAL CAPITAL AND LIABILITIES	\$	- 42,213

ILLUSTRATION ONLY

Income Statement for the most recent 12 months prior to ACRM filing

Lìne	income Statement for the most recent 12 mon	uis prio	[A]	[B] Adjustments Conforming		[C]
<u>No.</u>	<u>Description</u>	<u>Month</u>	Year Ending	to the Decision	As A	djusted
1	Operating Revenues					
2	Metered Water Revenue	\$	115,000		\$	115,000
3	Unmetered Water Revenue		600			600
4	Other Water Revenue		500			500
5	Total Operating Revenues	\$	116,100	-	\$	116,100
6						
7	Operating Expenses					
8	Salaries & Wages		15,000			15,000
9	Purchased Water		-			-
10	Purchased Power		14,350			14,350
11	Chemicals		50			50
12	Repairs & Maintenance		30,000			30,000
13	Office Supplies & Expenses		3,000			3,000
14	Outside Services		2,500			2,500
15	Water Testing		10,300			10,300
16	Rents		6,600			6,600
17	Transportation Expenses		300			300
18	Insurance - General Liability		3,300			3,300
19	Insurance - Health & Life		-			-
20	Regulatory Commission Expense		_			_
21	Miscellaneous Expense		6,600	(1,200)		5,400
22	Total Maintenance & Operating Expenses	\$	92,000	(1,200)		90,800
23	Depreciation & Amortization Expense	Ψ	5,220	(1,200)		5,220
23 24	General Taxes		1,000			1,000
	Income Taxes		500			500
25		\$	98,720			97,520
26	Total Operating Expenses	Ψ	90,720			91,320
27	LITH ITY ODED ATING INCOME / // OSS)	\$	17,380		\$	18,580
28	UTILITY OPERATING INCOME / (LOSS)	Φ	17,300		Ψ	10,500
29	Other Income (/Firenes)					
30	Other Income / (Expense)		100			100
31	Interest and Dividend Income		100			100
32	Non-Utility Income		-			-
33	Miscellaneous Non-Utility Expenses		400			400
34	Other Income / (Expense)	\$	100		\$	100
35			47.400			40.000
36	Income Before Interest Charges	\$	17,480		\$	18,680
37	Interest Charges		1,000			1,000
38	Not Incomo	\$	16,480		\$	17,680
39	Net Income	-	10,400		Ψ	17,000
OPERA	ATING ADJUSTMENT EXAMPLE					
UPERA	ATING ADJUSTIMENT EXAMPLE		[A]	[B]		[C]
		C	OMPANY	STAFF		STAFF
	Description		S FILED	ADJUSTMENT		ADJUSTED
	<u> </u>		<u> </u>			
40	Miscellaneous Expense		90,800	(1,200)		89,600
	····		1			

Please explain adjustment here. E.g. to remove lobbying expense disallowed by decision.

Wilhoit Water Company Yavapai Mobile Home Estates ACRM Step 1

Schedule 3 Income Statement Earnings Test

Docket No. W-02065A-07-0311, et.al.

EXAMPLE ONLY

An earnings test calculation.

Line			
<u>No.</u>	Description	Month '	Year Ending
1	Operating Revenues		
2	Water Revenues	\$	115,000
3	Sewer Revenues		50
4	Other Revenues		50_
5	Total Operating Revenues	\$	115,100
6	•		
7	Operating Expenses		
8	Maintenance Expense		92,000
9	Depreciation & Amortization		5,220
10	General Taxes (Sales, Property, etc.)		1,000
11	Income Taxes		500
12	Total Operating Expenses		98,720
13			
14	Utility Operating Income		16,380
15	Other Income / (Expenses)		100
16	Income Before Interest Charges		16,480
17	Interest Charges		1,000
18			
19	Net Income	\$	15,480
20			
21	Authorized Operating Margin per Decision XXXXX	X	21.63%
22			4.4.0004
23	Actual Operating Margin		14.23%
24 25	Over/ Under Authorized Operation Manage		7.400/
25	Over/ Under Authorized Operating Margin		-7.40%

APPENDIX B ACRM Schedule 3 Earnings Test ILLUSTRATION ONLY

Line		[A] Month Year Ending
No.	Description	Actual
1	Operating Revenues	<u>/ totodi</u>
	Total Operating Revenues	\$ 115,100
2 3	Total operating the second of	*
4	Operating Expenses	
5	Total Maintenance & Operations Expense	92,000
6	Depreciation & Amortization	5,220
7	General Taxes	1,000
8	Income Taxes	500
9	Total Operating Expenses	98,720
10		
11	Utility Operating Income	16,380
12		
13	Other Income	100
14		
15	Income Before Interest Charges	16,480
16		
17	Interest Charges	1,000
18		
19	Net Income	\$ 15,480
20		
21	Rate Base - O.C.L.D. (2006 Test Year)	65,244
22		
23	Authorized ACRM Operating Margin per Decision	21.63%
24		
25	Actual ROR (Ln. 11 ÷ Ln. 21)	25.11%
26		
27	Actual Operating Margin (Ln. 11 ÷ Ln. 2)	14.23%
28		
29	Interest Coverage (Ln. 11 + Ln. 8 + Ln. 17)	16.88

U. VV-U2UU3M-U7-U311, Et.al.								
			ILLU	<u>JSTRATION ON</u>	<u>ILY</u>			
		[A]		[B]		[C]		[D]
				12 Months	F	Arsenic1		
		Per		Ended	T	reatment		
		Decision	<u>Mor</u>	nth Year Ending		Plant		
Description		XXXXX		Adjusted	1	ncrease	į	<u>Adjusted</u>
Operating Revenues								
	\$	115,000	\$	116,100	\$	-	\$	116,100
, ,		•						•
Total Maintenance & Operatings Expense		85,600		92,000				92,000
		4,000		5,220				5,220
General Taxes		8,000		1,000				1,000
Income Taxes		100		500				500
Total Operating Expenses		97,700		98,720		-		98,720
, ,								
Utility Operating Income		17,300		17,380				17,380
Rate Base O.C.L.D. (Sch. 7 Ln. 32)	\$	3,024	\$	29,139	\$	36,105	\$	65,244
Authorized ACRM Return on Equity per Decision		21.63%		21.63%		21.63%		21.63%
Actual ROR (Ln. 11 + Ln. 13)		572.09%		59.65%		0.00%		26.64%
Operating Margin (Ln. 11 ÷ Ln. 2)		15.04%		14.97%		N/A		14.97%
Interest Expense (synchronized interest)	\$	88	\$	845	\$	-	\$	1,892
Interest Coverage (Ln. 11 + Ln. 8 ÷ Ln. 21)		198.41		21.16		N/A		9.45
	Description Operating Revenues Total Operating Revenues Total Maintenance & Operatings Expense Depreciation & Amortization General Taxes Income Taxes Total Operating Expenses Utility Operating Income Rate Base O.C.L.D. (Sch. 7 Ln. 32) Authorized ACRM Return on Equity per Decision Actual ROR (Ln. 11 + Ln. 13) Operating Margin (Ln. 11 + Ln. 2) Interest Expense (synchronized interest)	Description Operating Revenues Total Operating Revenues S Total Maintenance & Operatings Expense Depreciation & Amortization General Taxes Income Taxes Total Operating Expenses Utility Operating Income Rate Base O.C.L.D. (Sch. 7 Ln. 32) Authorized ACRM Return on Equity per Decision Actual ROR (Ln. 11 + Ln. 13) Operating Margin (Ln. 11 + Ln. 2) Interest Expense (synchronized interest) \$	Per Decision XXXXX	LLL	Per Decision Nonth Year Ending Month Y	Adjusted Per Decision Per Decision Nonth's Ended Tended Nonth's Ended Tended Nonth's Ended N	Per Decision Per Decision National Properting Revenues Total Operating Revenues Total Operating Expense S 115,000 S 116,100 S -	Per Decision XXXXX Decision XXXXX Adjusted Plant Increase Plant Plant Increase Plant Plant Increase Plant Plant Increase Plant
ACRM Schedule 5 Revenue Requirement

		[A]
Line		
<u>No.</u>		
1	Arsenic Plant Revenue Requirement	
2	Arsenic Plant in Service/Rate Base ¹	\$ 36,105
3	Less: Accumulated Depreciation	
4	ACRM Rate Base	\$ 36,105
5	Depreciation rate ²	5.00%
6	Depreciation expense	1,805
7	Depreciation expense net of tax savings	1,408
8	Recoverable O&M costs	-
9	Recoverable O&M costs net of tax savings ³	
10	Arsenic Operating Income	(1,408)
11	Rate of return	-3.90%
12	Required Operating Margin	21.63%
13	Required Operating Income	1,805
14	Operating Income deficiency	3,213
15	Gross revenue conversion factor⁴	 0.000
16	Depreciation Expense Revenue deficiency	\$ -
17	Total Surcharge Requirement	\$ 36,105

¹ From Schedule 8 CWIP Ledger

² Use composite rate calculated from component rates by account

³ Assumes a 22 percent combined state and federal income tax rate.

⁴ GRCF = 1/(1-Tax Rate) = 1/(1-.22) = 1.282

Wilhoit Water Company Yavapai Mobile Home Estates ACRM Step 1 Docket No. W-02065A-07-0311, et.al.

			ш	EXAMPLE ONLY							
Detaile	Detailed calculation of Surcharge.	<u>A</u>		[9]	<u>ত</u>	<u>[</u>	<u> </u>	E	<u></u>	Ξ	
Growth	Month Year (Year 1) Month Year 2 (Year 2)	Customers	90 95	Total Gallons Sold 9,000,000 9,850,109	Gallons Sold Per Cust. 100,000.00 103,685.36						
	+ + +	Col B Ln 2 + 2)	5.56%	9.425,055 9,425,055	3.69%						
		Average		Estimated	Estimated	į		- -	i		
	<u>Meter Size</u> Resid 5/8-inch	Customers at 12/31/2006	8	Customers at 12/31/2006 98	Average Customers 96	Minimum 8.00	Multiples 1.0	Equivalent Meters 96	Fixed Monthly \$ 11.62 \$	Fixed Increment Annual Total \$ 13.324	4
	Commer. 5/8-inch		3 .	: .			1.0	;	11.62	,	
	1-inch			•	•	18.00	2.3	•	26.14	•	
	1.5-inch 2-inch		, —	, -	, ~	64.00 64.00	0.8 0.0	, œ	56.08 92.93	1,146	9
	3-inch			,	,	120.00	15.0		174.25	. •	
	4-inch		-	₩	-	200.00	25.0	56	290.42	3,582	2
	6-inch grich		,	• •	• 1	400.00	0.0 0.0	• •	580.84	• 1	
	Multi-family 044 1"			, ,			0.0				
	Multi-family 056 2"			•		•	0.0			•	
	Multi-family 064 4"			•	•	•	0.0		•		
	Multi-family 065 2"				•	•	0.0	•	•	•	
	Multi-family 067 4"			•	•	1	0.0		•	•	
	Multi-family 089 1"				•	į	0.0	•		•	
	Multi-family 102 2"		•			•	0.0			•	
	Multi-family 129 4"		•	•		•	0.0	•		•	
	Multi-family 153 4"		. 40	100	, la	•	0.0	130		18 053	l«
			3		Minimum	Commodity		}		1	ı
Calcula	Calculation of Surcharge				Surcharge	Surcharge					
	I dtal costs to be recovered (Sch. 5 Col A Ln 13) Minimum Revenue (Col B Ln 33 + 2) Commodity Revenue (Col B Ln 33 + 2)	Sch. 5 Col A Ln 33 + 2) Ln 33 + 2)		\$ 36,105	\$ 18,053	\$ 18,053					
Monthly	Monthly Increment Per Equivalent Meter Equivalent Meters (Col F Ln 29 × 12 Months)	29 × 12 Months)			1,554						
	Minimum Surcharge (Ln 34	34 + Ln 38)			\$ 11.62						
	Average Gallons (Col B Ln 5)					9,425,055					
	Commodity Surcharge (Ln 35 + Ln 42)	5 + Ln 42)			18	\$ 0.0019					

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			[A]		[B]		[C]		[D]		[E]		(F)
LINE <u>NO.</u>			Per Decision XXXXX	Ti	Arsenic reatment Plant ncrease	Plu	Decision us Arsenic reatment <u>Plant</u>		Actual Balance n Year Ending	T	Arsenic reatment Plant Increase	Bal	Actual ance Plus enic Trtmt. <u>Plant</u>
1	Utility Plant												
2	Gross Utility Plant in Service	\$	111,493	\$	36,105	\$	147,598	\$	117,493	\$	36,105	\$	153,598
3	Accumulated Depreciation		(88,071)				(88,071)	\$	(88,071)				(88,071)
4	Arsenic Removal Facilities		-				-						-
5	Accumulated Depreciation of Arsenic Plant		-				-						-
6 7	Net Utility Plant in Service	-\$	23,422	<u> </u>	36,105	\$	59,527	\$	29,422	\$	36,105	•	65,527
8	Net Other Flant III Service	Ψ	20,422	Ψ	30,103	Ψ	33,327	Ψ	20,422	Ψ	30,103	Ψ	05,527
9	Deductions												
10	Advances in Aid of Construction		-				_		_				-
11	Imputed Regulatory Advances		-				-		_				-
12	Accum. Amortization of Regulatory AIAC		-				-		-				-
13	Contributions in Aid of Construction		20,000				20,000		-				-
14	Accum. Amortization of CIAC		(750)				(750)		(1,000)				(1,000)
15	Imputed Regulatory Contributions		-				-		-				-
16	Accum. Amortization of Regulatory CIAC		-				-		-				-
17	Arsenic Impact Fee Contributions		-				•		. •				-
18	Accum. Amortization of AIF CIAC						-		5 4 4 0				- - 140
19	Customer Meter Deposits		5,148				5,148		5,148				5,148
20 21	Deferred Income Taxes & Investment Tax Credits		-				-		-				-
22	Total Deductions	\$	24,398	\$		\$	24,398	\$	4,148	\$		\$	4,148
23	Total Deductions	•	24,000	Ψ.		•	24,000	•	4,140	Ψ		•	4,140
24	Additions												
25	Unamortized Finance Charges		-				-		-				-
26	Deferred Tax Assets		-				-		-				-
27	Allowance for Working Capital		4,000				4,000		3,865				3,865
28	Utility Plant Acquisition Adjustment		-				-		-				-
29													
30	Total Additions	\$	4,000	\$	-	\$	4,000	\$	3,865	\$	-	\$	3,865
31													
32	Total Rate Base	\$	3,024	\$	36,105	\$	39,129	\$	29,139	\$	36,105	\$	65,244
33													
34													
35													

This schedule shows work orders cross referenced to invoices and dates paid.
These totals are put on Schedule 5, Revenue Requirement

CWIE	CWIP Ledger Summary	nary	CWIP Acct. (GLOBJ)									
Line	Period/ Month	Wonth							105275 - Contracted			
	YEAR (GLPN)	Nork Order/ Subledger (GLSBL)	105050 - Accruals 105110 - History	105110 - History	105150 - M&S Purchases 105200 - Co. Labor 105260 - Overhead 105270 - Svc. Co. Charges	05200 - Co. Labor 10526	0 - Overhead 105270 - S.	vc. Co. Charges	Services	105280 - Retainage Bldgs 105350 - AFUDC Debt	0 - AFUDC Debt	
-	2006	1 50028305		(23,000)		395		(1,687)	16,169		1,131	(4,563)
7		50051122	31,630									31,630
m		50066421		(30,556)					(9,727)	634	942	(36,961)
4	-	50072458	•	(49,279)					21,777		2,221	(21,164)
2		50072461									77	218
9		2 50028305				682	252	3,508	18,988		1,156	27,276
7		50051122	10.191									10,191
. 60		50066421		(13,916)			73		18,603	2,558	996	10,045
		50072458					498		30,000		2,270	36,974
-01		50072461	_				9				77	526
-		3 50028305			485	1,306	746	6,793	3,114		1,230	16,967
12		50051122	(40,958)	_								(40,958
13		50066421					205		37,289	3,213	1,021	43,621
14		50072458					1,007		23,762		2,394	31,597
15		50072461					9				78	228
16		4 50051122	(863)									(893)
_	2006 Total		9	(116,751)	485	2,384	2,792	8,615	159,975	907'9	13,553	104,464
18 Total			0)	(116,751)	485	2,384	2.792	8,615	159.975	9	13,553	104,464
J	-						The state of the s					

Schedule 9 Typical Bill Analysís - ACRM Step-1

		CLF O MVII				
	Residential 5/8-inch Customer [A]	[B]		[C]	[D]	
Lina	Gallons	Prese	nt D		Percent	
Line				roposed		
<u>No.</u> 1	Consumption	Rate	2	Rates	<u>Increase</u>	
2	_	\$ 8.	00 \$	11.62	45.2%	
3	1,000	\$ 10.	• •		33.1%	
4	2,000	\$ 13.6			26.1%	
5	3,000	\$ 16.			21.5%	
6	4,000	\$ 19.			18.3%	
7	5,000	\$ 23.			15.2%	
8	6,000	\$ 28.0	•		12.9%	
9	7,000	\$ 32.2			11.3%	
10	8,000	\$ 36.4			10.0%	
11	9,000	\$ 40.	-		9.0%	
12	10,000	\$ 44.	•		8.1%	
13	11,000	\$ 48.	,		7.4%	
14	12,000	\$ 53.0	,		6.9%	
15	13,000	\$ 57.			6.4%	
16	14,000	\$ 57.	•	60.84	6.4%	
17	15,000	\$ 57.			6.4%	
18	16,000	\$ 57.			6.4%	
19	17,000	\$ 57.3		60.84	6.4%	
20	18,000	\$ 57.2		60.84	6.4%	
21	19,000	\$ 57.2	20 \$	60.84	6.4%	
22	20,000	\$ 57.3	20 \$	60.84	6.4%	
23	21,000	\$ 57.2	20 \$	60.84	6.4%	
24	22,000	\$ 57.2	20 \$	60.84	6.4%	
25	23,000	\$ 57.2	20 \$	60.84	6.4%	
26	24,000	\$ 57.3	20 \$	60.84	6.4%	
27	25,000	\$ 57.3	20 \$	60.84	6.4%	
28						
29						
30	Average Residential Consumption					
31	Average Residential Bill	\$ 45.3	30 \$	48.94	8.0%	\$ 3.64
32						
33	Monthly Minimum Rate	\$ 8.0		11.62	45.2%	\$ 3.62
34	Commodity Rate 0 to 6,000 gallons		40	2.9419	0.065%	\$ 0.0019
35 36	Commmodity Rate 6,001 gallons and over	4.1	60	4.1619	0.046%	
-						